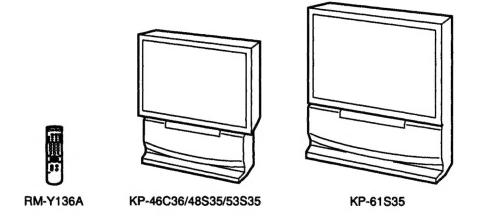
SERVICE MANUAL

RA-2 CHASSIS

MODEL	COMMANDER DEST. CHASSIS N	MODEL	COMMANDER DEST. CHASSIS NO.
KP-46C36	RM-Y136A US SCC-K90C-J		
KP-48S35	RM-Y136A US SCC-K90B-A Canadian SCC-N22A-A		
KP-53S35	RM-Y136A US SCC-K90A-A Canadian SCC-N22B-A		
KP-61S35	RM-Y136A US SCC-K90D-J		







COLOR REAR VIDEO PROJECTOR SONY.

* Please file according to model size.



48

53

3 6

SPECIFICATIONS

Projection system 3 picture tubes, 3 lenses,

horizontal in-line system

Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and

liquid cooling system

Projection lenses High performance, largediameter hybrid lens F1.1

Screen size (measured diagonally)

KP-46C36 46 inches KP-48S35 48 inches KP-53S35 53 inches KP-61S35 61 inches

Television system American TV standards

Channel coverage VHF: 2-13 / UHF: 14-69 /

CATV: 1-125

Antenna

75 ohm external antenna terminal for VHF/UHF

inputs/output

VIDEO IN 1

S VIDEO (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75 ohms

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

VIDEO IN 2 (for KP-48S35/53S35/

61535)

VIDEO IN 3 (for KP-46C36 only)

VIDEO (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

MONITOR OUT

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms

(100% modulation). Impedance: 10 kilohms

AUDIO OUT (phono jacks): 500 mVrms

mVrms (100% modulation) Impedance: 5 kilohms

Speaker

Full range speaker 100 mm (3.9

inches) diameter

Speaker output

10 W × 2

Power requirement

120 V, 60 Hz

Power consumption

Standby mode: 3 W

	Dimensions(W/H/D)	Mass
KP-46C36	1,066 × 1,306 × 563 mm (42 × 51 ¹ / ₂ × 22 ¹ / ₄ inches)	65 kg (143 lbs 5 oz)
KP-48S35	1,106 × 1,337 × 571 mm (43 ⁵ /s × 52 ⁵ /s × 22 ¹ /2 inches)	67 kg (147 lbs 11 oz)
KP-53S35	1,218 × 1,413 × 614 mm (48 × 55 ⁵ /s × 24 ¹ /4 inches)	69 kg (152 lbs 1 oz)
KP-61S35	1,338 × 1,506 × 642 mm (52 ³ / ₄ × 59 ³ / ₈ × 25 ³ / ₈ inches)	122 kg (268 lbs 15 oz)

Supplied accessories

Remote control RM-Y136A (1) Size AA (R6) battery (2)

Optional accessories

U/V mixer EAC-66

Connecting cables RK-74A, VMC-810S/

820S, YC-15V/30V, VMC-720M High-contrast protective screen SCN-46X1 (For KP-46C36)

SCN-48X2 (For KP-48535) SCN-53X2 (For KP-53S35) SCN-61X2 (For KP-61S35)

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!! COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during
 a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cords for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
 Check leakage as described below.

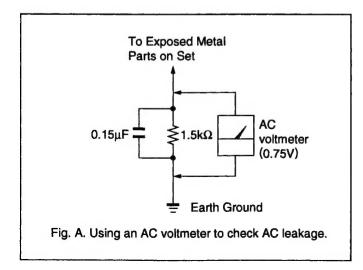
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



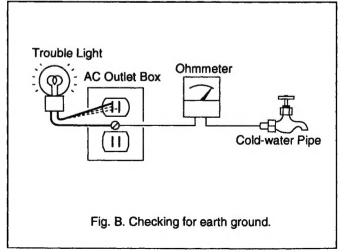


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SECTION 1 GENERAL

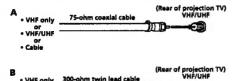
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

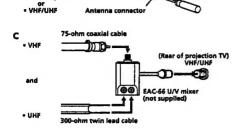
Step 2: Hookup

Although you can use either an indoor or outdoor antenna with your projection TV, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

Connecting an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.





Notes

- Most VHF/UHF combination antennas have a signal splitter.
 Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

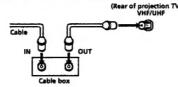
Connecting an antenna/cable TV system without a VCR

To cable or antenna

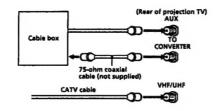


To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To cable box and cable



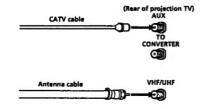
Pay cable TV systems use scrambled or encoded signals requiring a cable box* in addition to the normal cable connection.

* The cable box will be supplied by the cable company.

Note

 You cannot watch the signal through an AUX connector as a window picture.

To cable and antenna



Note

 Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

For details on connection, see your VCR instruction manual.

Before making the connection, disconnect the AC power cords of the equipment to be connected.

To a conventional VCR

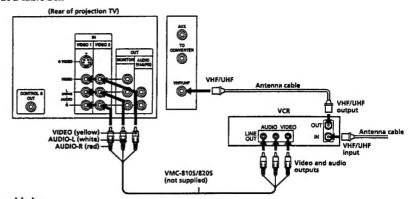
Notes

- For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.
- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/2/3 IN on the projection TV.

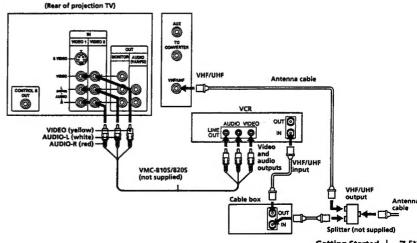
After making these connections, you will be able to do the following:

- · View the playback of video tapes
- Record one TV program while viewing another program
- Watch two TV programs at once using PIP

Without a cable box



With a cable box



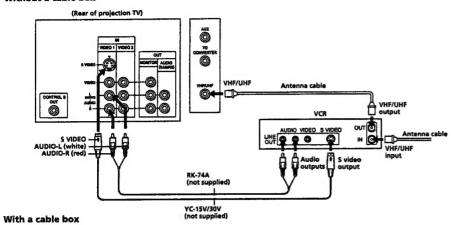
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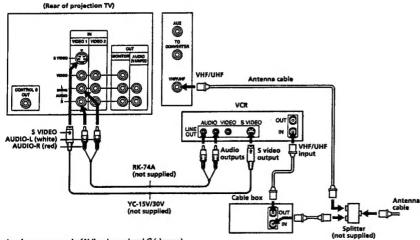
To an S video equipped VCR

If your VCR has an 5 VIDEO output connector, make the following connections.

Whenever you connect the cable to the S VIDEO input connector, the projection TV automatically receives S video signals.

Without a cable box





Note

 Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections.

R-EN | Getting Started

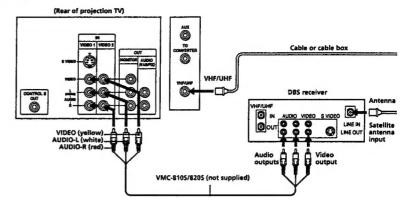
Connecting a DBS receiver

For details on connection, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

To a projection TV

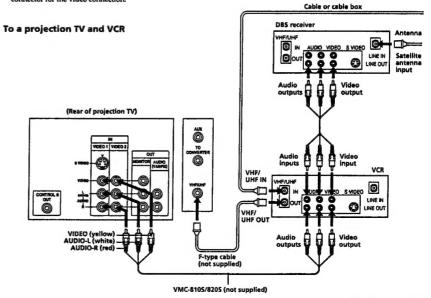
Note

 For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.



Note

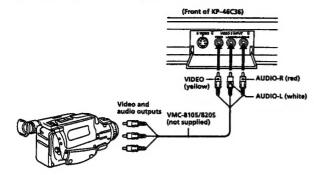
 You can use the S VIDEO connector or the composite video connector for the video connection.



Connecting a camcorder

■ KP-46C36 only

Use this connection to view a camcorder picture.

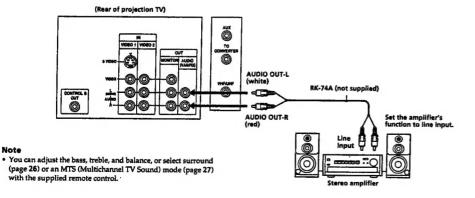


Note

 To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (MONO) of VIDEO 2 INPUT on the projection TV.

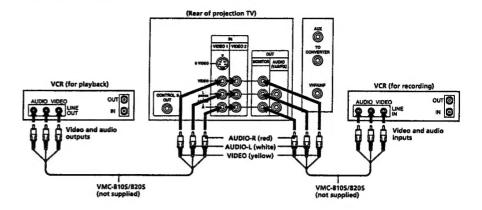
Connecting an audio system

When connecting audio equipment, see page 28 for more information.



Connecting two VCRs for tape editing using MONITOR OUT

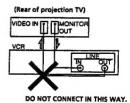
You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- You can use the S video jack to connect a VCR for playback and the composite video connector to connect a VCR for recording.
- For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.

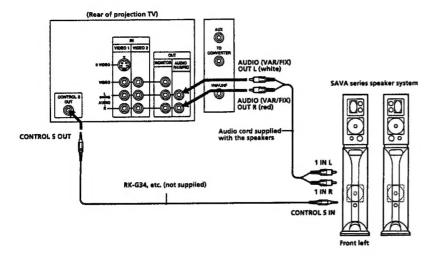
 When connecting a single VCR to the projection TV, do not connect the MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN connectors to the VCR's line output, as shown below.



Connecting a Sony SAVA series speaker system

If you have a Sony SAVA series speaker system, connect your speakers to the AUDIO (VAR/FIX) OUT jacks on the rear of the projection TV with the audio cable supplied with the speakers. You can take advantage of the speakers' Dolby Pro Logic* surround system and super woofer mode, and control them with the supplied remote control. When connecting a Sony SAVA series speaker system, see page 27 for more information.

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol 00 and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.



Step 3: Setting up the remote control

Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.





Notes

- · Under normal conditions, batteries will last up to six months. If the remote control does not operate properly or the indicators of the buttons on the remote control do not light up, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- · Do not mix old batteries with new ones or mix different types of batteries together.
- · If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you don't plan to use the remote control for a long period of time.
- . Do not handle the remote control roughly. Do not drop it, step on it, or let it get wet.
- . Do not place the remote control in direct sunlight, near a heater, or where the humidity is high.

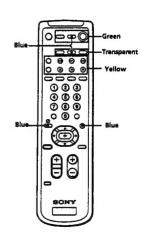
Getting to know buttons on the remote control

Names of buttons on the remote control are indicated in different colors to represent the available functions.

Button color

... TV/VCR/DBS/Cable box function Transparent ... (light up) buttons. Press the appropriate function button first to change the remote control's function. Buttons relevant to power operations. Green

Label color White . . TV/VCR/DBS/Cable box operation buttons. Yellow... PIP operation buttons. DBS operation buttons.



-9-

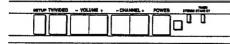
Step 4: Setting up the projection TV automatically

(AUTO SET UP)

You can set up your projection TV easily by using the AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the onscreen menu language. To set up the projection TV manually, see "Adjusting convergence" (page 16), "Setting cable TV on or off" (page 17), "Presetting channels" (page 18) and "Changing the menu language" (page 18).

If the projection TV is set to a video input, you cannot perform AUTO SET UP. Press TV/VIDEO so that a channel number appears.

(Front of projection TV)



Before you start using AUTO SET UP, be sure to connect the antenna or cable to the projection TV (see page 6).

1 Press POWER to turn the projection TV on.



2 Press SETUP on the front of the projection TV.

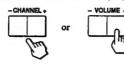
AUTO SET UP screen appears.





3 Press CHANNEL +/~ or VOLUME + to select the on-screen menu language.

If you prefer Spanish or French to English, you can change the on-screen menu language.



All of the menus will be set to the factory preset condition in the selected language.

4 Press VOLUME - to start AUTO SET UP.





5 Press CHANNEL + to preset channels.





"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CABLE is set to ON automatically.

CONTINUE TO CONVERGENCE? YES: CH-

To exit AUTO PROGRAM Press any button.

Press any dutton.

6 Adjust convergence.
(1) Press CHANNEL +.

The CONVERGENCE adjustment screen appears.



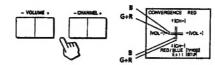


(2) Press TV/VIDEO to select RED or BLUE.





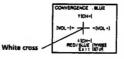
(3) Using CHANNEL +/- or VOLUME +/-, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL +/-.

To move vertical line right/left, press VOLUME +/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



Note

 Using the AUX connector, press TV (black button) first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow the steps 2 to 6 above to perform AUTO SET UP.

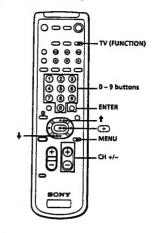
To preview the main functions (DEMO)

Press TV/VIDEO on the projection TV in step 4. The functions and menus are displayed one by one.

To exit DEMO Press any button.

Erasing or adding channels

After AUTO SET UP, you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



1 Press TV (FUNCTION).



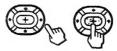
2 Press MENU.

The main menu appears.





3 Press + or + to select ♠, and press ♠.
The SET UP menu appears.





4 Press + or + to select CHANNEL ERASE/ADD, and press .

The CHANNEL ERASE/ADD menu appears.







5 Erase and/or add channels:

To erase an unwanted channel

- (1) Make sure the cursor (▶) is beside ERASE.
- (2) Press CH +/- or the 0 9 buttons to select the channel you want to erase, and press ENTER.



(3) Press .

The "-" indication appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- Press
 or
 to move the cursor (▶) to ADD.
- (2) Press the 0 9 buttons to select the channel you want to add, and press ENTER.

Selected channel numbe





The "+" indication appears beside the channel number, showing that the channel is added to the preset memory.



- 6 To erase and/or add other channels, repeat
- 7 Press MENU to return to the original screen.



Notes

- · If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and
- Erasing and adding channels is also available for the AUX

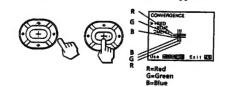
Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to adjust it manually,

- 1 Press MENU.
- 2 Press + or + to select 🖨 , and press 🕩 .
- 3 Press + or + to select CONVERGENCE, and

The CONVERGENCE adjustment screen appears.



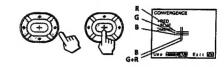
4 Press +, +, +, or + to move the cursor (▶) to the symbol showing the line you want to adjust, and press .







- +RED: Red vertical and horizontal line (left/right/up/ down adjustment)
- +BLUE : Blue vertical and horizontal line (left/right/up/ down adjustment)
- 5 Press +, +, +, or + to move the line until it converges with the center green line, and press Ð .



To move	Press	
Up	•	
Down	+	
Right	•	
Left	+	

- 6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.
- 7 Press MENU to return to the original screen.

Setting cable TV on or off

If you have connected the projection TV to a cable TV system, set CABLE to ON (the factory setting). If not, set CABLE to OFF.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select ♠, and press ⊕.
- 3 Set CABLE to ON or OFF:
 - (1) Press + or + to move the cursor (▶) to CABLE, and press .
 - (2) Press ♦ or ♦ to select ON or OFF, and press ⊕.







4 Press MENU to return to the original screen.

 If CABLE appears in gray, the projection TV is set to a video input and you cannot select CABLE. Press TV (black button) so that a channel number appears.

You can preset TV channels easily by using the AUTO PROGRAM feature.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select 🕾, and press 🕀.
- 3 Press + or + to select AUTO PROGRAM, and press ①.







"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

To exit AUTO PROGRAM Press any button.

Notes

- If the AUTO PROGRAM menu appears in gray, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV (black) button so that a channel number appears.
- Presetting channels is also available for the AUX input.

Changing the menu language

If you prefer Spanish or French to English, you can change the menu language.

You do not have to do this procedure if you select the language during AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select . and press .
- 3 Press + or + to select LANGUAGE, and press

 .







4 Press + or + to select your favorite language, "ENGLISH", "ESPAÑOL," or "FRANÇAIS" and press ⊕.







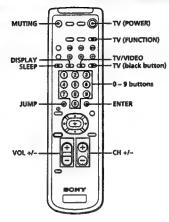
5 Press MENU to return to the original screen.

Note

 Certain parts of the Spanish or French menus remain in English.

Operations





1 Press TV (POWER) to turn on the projection TV.

The TIMER/STANDBY indicator flashes until the picture appears.



If "VIDEO" appears on the screen, press TV (black button) so that a channel number appears.

2 Press TV (FUNCTION).

-FUNCTION -

Once you press TV (FUNCTION), the projection TV function is set unless another function button is pressed.

3 Select the channel you want: To select a channel directly

> Press the 0 – 9 buttons, and press ENTER. For example, to select channel 10, press 1, 0 and ENTER.

To scan through channels

Press CH +/- until the channel you want appears.



The channel can also be selected without pressing ENTER.

4 Press VOL +/- to adjust the volume.





Switching quickly between two channels

You can use the JUMP button to switch or "jump" back and forth between two channels.

Press JUMP.



Pressing JUMP again switches the channel back to the one you selected last.

Note

 You cannot jump to channels you scanned through using the CH +/- buttons.

Muting the sound

Press MUTING.

"MUTING" appears on the screen.

MUTING



To restore the sound, press MUTING again, or press VOL +. Operations | 19-EN

Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.

Each time you press DISPLAY, the display changes as follows:



- Channel number, the current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.
- ** Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.
- *** Some programs are broadcast with Caption Vision. When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 34 for selecting Caption Vision.)

To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (minutes) you want appears.

Each time you press SLEEP, the time-changes as follows:

$$30 \rightarrow 60 \rightarrow 90 \rightarrow \text{SLEEP OFF}$$

SLEEP

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection TV.

20-EN | Operations

Watching a video input picture

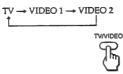
Press TV/VIDEO repeatedly until the desired video input appears.

Each time you press TV/VIDEO, the display changes as follows:

■ KP-41T35/46C36 only

 $TV \rightarrow VIDEO 1 \rightarrow VIDEO 2 \rightarrow VIDEO 3$

■ KP-48S35/53S35/61S35 only



To return to the TV picture, press TV (black button) so that a channel number appears.

Changing the VHF/UHF input to the AUX input

Press TV (black button).

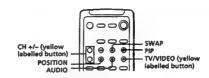
"AUX" appears beside the channel number.



Pressing TV (black button) again switches back to the VHF/UHF input.

Watching two programs at one time — PIP

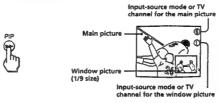
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.



Use the yellow labelled buttons for PIP operations.

Displaying a window picture

Press PIP.



Press PIP again to display a smaller window picture.

Window picture

(1/16 size)

Input-source mode or TV
channel for the main picture

(1/16 window picture)

To remove the window picture, press PIP again.

Note

 The window picture may be affected by the condition of the main picture.

Changing the window picture input mode

Press TV/VIDEO (yellow labelled button) to select the input mode.

Each time you press TV/VIDEO (yellow labelled button), "TV," "VIDEO 1," "VIDEO 2," and "VIDEO 3 (for KP-46C36 only)" appear in sequence.





A window picture will appear in the same input mode as the last time you used PIP.

Note

 If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

Listening to the sound of the window picture

Press AUDIO.

The $\it J$ display appears next to the PIP channel number for a few seconds, indicating that the window picture sound is being received.





The sound of the window picture is received.

To restore the main picture sound, press AUDIO again. The & display moves to the main picture channel number.

Changing TV channels in the window picture

Press CH +/- (yellow labelled button).





Changing the position of the window picture

Press POSITION.

Each time you press POSITION, the window picture will move counterclockwise on the screen.



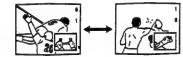


Swapping the main and window pictures

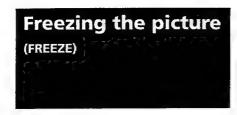
Press SWAP.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

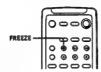




 The channels being received through the AUX connector cannot be displayed as a window picture.



The FREEZE feature is useful when you want to write down an information such as a recipe from a cooking program, a displayed address, or a phone number. The frozen picture changes as follows depending on whether the PIP function is used or not.



Press FREEZE.



When the PIP function is not being used

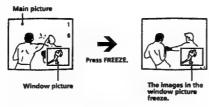






To remove the frozen window picture, press FREEZE again.

When the PIP function is being used

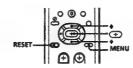


To cancel the frozen window picture, press FREEZE again.



When watching TV programs, you can adjust the picture to suit your taste.

You can adjust the picture of video input(s) as well.



- 1 Press MENU.
- 2 Press + or + to select (III), and press .







- 3 Select the item you want to adjust. For example:
 - (1) To adjust the brightness, press ♦ or ♦ to move the cursor (▶) to BRIGHTNESS.





(2) Press .





4 Adjust the selected item:

(1) Press ♠, ♠, ♣, or ♦ to adjust the item.





(2) Press .

The new setting appears in the VIDEO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press + or + to	Press + or + to
PICTURE	Decrease picture contrast and give soft color.	Increase picture contrast and give vivid color.
HUE	Make picture tones become purplish.	Make picture tones become greenish.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHTNES	Darken the picture.	Brighten the picture.
SHARPNESS	Soften the picture.	Sharpen the picture.

To restore the factory settings

Press RESET after displaying and selecting the VIDEO

All of the settings are restored to the factory settings.

Adjusting the color temperature (TRINITONE)

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



- 1 Press MENU.
- 2 Press + or + to select m and press .
- 3 Press + or + to select TRINITONE and press







Press + or + to select NTSC STD, MEDIUM, or HIGH and press (1).







Choose	To
HIGH	a cool (bluish) white.
MEDIUM	a neutral white.
NTSC STD	a warm (reddish) white.

Selecting the video mode (VIDEO)

The video mode feature allows you to choose three different modes of picture settings. Choose the one that best suits the type of program that you want to watch.

- 1 Press MENU.
- 2 Press + or + to select (III), and press (1).
- 3 Press + or + to select MODE, and press ①.
- 4 Press + or + to select STANDARD, MOVIE, or SPORTS mode, and press .







Choose	To
STANDARD	Receive a standard picture.
MOVIE	Receive a finely detailed picture.
SPORTS	Receive a vivid, bright picture.

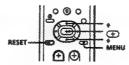
5 Press MENU to return to the original screen.

Note

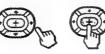
. The settings for these modes can be adjusted in the VIDEO

Adjusting the sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of the video input(s) as well.



- 1 Press MENU.
- 2 Press + or + to select /, and press .





- 3 Select the item you want to adjust. For example:
 - (1) To adjust bass, press # or # to move the cursor (►) to BASS.





(2) Press (1).





- 4 Adjust the selected item:
 - (1) Press ♦, ♦, ♦, or ♦ to adjust the item.





(2) Press (1).

The new setting appears in the AUDIO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press + or + to	Press + or + to
TREBLE	Decrease the treble response.	Increase the treble response.
BASS	Decrease the bass response.	Increase the bass response.
BALANCE	Emphasize the left speaker's volume.	Emphasize the right speaker's volume.

To restore the factory settings

Press RESET after displaying and selecting the AUDIO

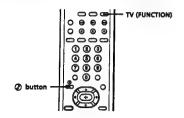
All of the settings are restored to the factory settings.

 When SPEAKER (page 27) is OFF and AUDIO OUT (page 28) is in the FIXED condition, the volume, TREBLE, BASS, and BALANCE cannot be adjusted.

Using audio effect

sound reproduction with the atmosphere of a movie theater or a concert hall. Audio effect is only effective for stereo programs.

Using the @ (audio effect) button



- 1 Press TV (FUNCTION).

Each time you press the @button, the display changes as follows:

SURROUND → SURROUND OFF



Using the menu to set audio effect



- 1 Press MENU.
- 2 Press + or + to select \downarrow , and press \oplus .
- 3 Press + or + to select EFFECT, and press .







4 Press + or + to select the audio effect mode, and press 🕀 .







5 Press MENU to return to the original screen.

Selecting stereo or bilingual programs

(MT5)

The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound



Press MTS repeatedly to select STEREO, SAP, or

STEREO-SAP-MONO

Choose	То
STEREO	Listen to stereo sound. The STEREO indicator on the projection TV lights up when a stereo broadcast is received.
SAP	Listen to bilingual programs. There is no sound when the SAP signal is not broadcasting.
MONO	Listen to monaural sound. Reduce noise during stereo broadcasts.

· Stereo and SAP sounds are subject to program sources.

To set MTS using the menu

- 1 Press MENU.
- 2 Press ♦ or ♦ to select ♪, and press ⊕.
- 3 Press or to select MTS, and press (+).
- 4 Press ★ or ★ to select STEREO, SAP, or MONO.
- 5 Press MENU to return to the original screen.

Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.

If you connect the Sony SAVA series speaker system to the AUDIO (VAR/FIX) OUT connectors, you can take advantage of the speakers' surround sound and super woofer mode. After making the connections (page 12), set SPEAKER to SAVA SPEAKER, then adjust SURROUND MODE or SUPER WOOFER MODE.



- 1 Press MENU.
- 2 Press + or + to select 1, and press 🕀.
- 3 Press + or + to select SPEAKER, and press







4 Press + or + to select ON, OFF, or SAVA SP, and press .







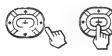
5 Press MENU to return to the original screen.

Choose	To
ÖN	Listen to the sound from the projection TV.
OFF	Turn off the projection TV speaker sound and listen to the projection TV's sound solely through the audio system speakers.
SAVA SP	Turn off the projection TV speaker sound and listen to the projection TV's sound through the Sony SAVA series speaker system. You can adjust volume, muting, surround modes, and super woofer mode with the remote control supplied with the projection TV.

To select surround sound or super woofer mode of the SAVA speaker system

After setting SPEAKER to SAVA SP, follow the procedure below.

Press + or + to select SURROUND MODE or SUPER WOOFER MODE, and press . For details on each option, refer to the operating instructions of the speaker system.

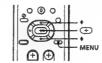




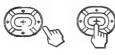
. This feature is only for Sony SAVA speaker system with an operation capability for KP-46C36, KP-48S35, KP-53S35, and KP-61S35.

Setting audio out (AUDIO OUT)

You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF. AUDIO OUT is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press + or * to select J, and press ⊕.
- 3 Press + or + to select AUDIO OUT, and press Œ,





4 Press + or + to select VARIABLE or FIXED, and press .







VARIABLE: Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble, and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance are also fixed to the factory settings.

5 Press MENU to return to the original screen.

. If AUDIO OUT appears in gray, set SPEAKER to OFF.

Setting daylight saving time (DAYLIGHT SAVING)

If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

· After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time setting (right column) automatically moves one hour ahead.

Daylight saving end

· After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time setting automatically moves one hour back.



- 1 Press MENU.
- 2 Press + or + to select ①, and press ①.
- 3 Press + or ♥ to select DAYLIGHT SAVING, and press (+).







4 Press + or + to select YES or NO, and press





Choose	То
YES	Set for daylight saving start.
NO	Set for daylight saving end.

5 Press MENU to return to the original screen.

Setting the clock (CURRENT TIME SET)

Setting the clock enables you to turn the projection TV on and off with the timer. Make sure to set daylight saving time first.



- 1 Press MENU.
- Press ♦ or ♦ to select ⊙, and press ⊙.
- 3 Press * or * to select CURRENT TIME SET, and press 🕀.







4 Make sure the cursor (▶) is to the left of "~:-- AM," and press (1).





5 Set the current day of the week and time.

(1) Press ★ or ♥ to set the day of the week, and press







(2) Set the hour and minutes in the same way as in step (1). When you press (after setting the minutes, the clock starts.







5 Press MENU to return to the original screen.

Setting the timer to turn the projection TV on and off

(ON/OFF TIMER)

You can set the projection TV to turn on and off at the times you specify. Make sure the clock is set correctly. If it is not, set the clock first (page 29).



- 1 Press MENU.
- 2 Press + or + to select ②, and press ①.
- 3 Press + or + to select ON/OFF TIMER, and press (+).







- Press
 and enter the ON/OFF TIMER
 - (1) Press ♦ or ♦ to set the day(s), and press ⊕.

Each time you press ◆ or ◆, the days cycle as

EVERY SUN-SAT→EVERY MON-FRI→ SUNDAY--..--SATURDAY---EVERY SUNDAY→...→EVERY SATURDAY









(2) Press ♠ or ♦ to set the time (hour then minutes) that you want to turn on the projection TV, and press (+).







(3) Press ♦ or ₹ to set the time duration, and press

Each time you press ♦, the time duration increases by one hour up to a maximum of six







(4) Press ♦ or ♦ to select the channel, and press ⊕.





The TIMER indicator on the projection TV lights up.

- 5 To set the other program, press 🕁, and repeat step 4.
- 6 Press MENU to return to the original screen.

One minute before the projection TV turns off, the message "TV will turn off soon." is displayed on the screen.

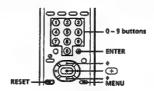
To cancel the timer

In step 3 or 4, press RESET.

· If you unplug the projection TV or a power interruption occurs. the ON/OFF TIMER setting will be erased. Reset the current time, then set the timer.

Customizing the channel names (CHANNEL CAPTION)

You can add a caption for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.



- 1 Press MENU.
- 2 Press + or + to select @, and press .







3 Press + or + to select CHANNEL CAPTION, and press .







4 Press • and press + or + to select the channel that you want to caption, and press (+).







- 5 Enter the letters (up to four) to caption the
 - (1) Press ♦ or ♦ to select the first letter.

Each time you press ♦ or ♥, the letter changes as

0...9---A...Z---&,/,_(blank space)



(2) Press .





- (3) Repeat steps (1) and (2) to select the remaining letters, and press ①.
- 6 Repeat steps 4 and 5 to caption other
- 7 Press MENU to return to the original screen.

After you customize the channel, the channel caption appears green.

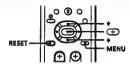
To erase a caption

In step 5, press RESET.

- · If the CHANNEL CAPTION menu appears in gray, the projection TV is set to a video input, and you cannot select CHANNEL CAPTION. Press TV (black button) so that a channel number appears.
- . If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- . The channel caption feature is not available for the AUX input.

Blocking out a channel (CHANNEL BLOCK)

The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.



- 1 Press MENU.
- 2 Press + or + to select 🗗, and press 🕀.
- 3 Press + or + to select CHANNEL BLOCK, and press 🕀.







4 Press + or + to select program 1 or 2, and press (+).





5 Press + or + to select the channel which you want to block out, and press .





6 Press MENU to return to the original screen.

When you select the blocked channel, the message "BLOCKED" appears on the screen.



To cancel a CHANNEL BLOCK setting In step 4 or 5, press RESET.

- Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from MONITOR OUT are also blocked out.
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Setting your favorite channels (FAVORITE CHANNEL)

The favorite channel feature allows your projection TV to memorize your favorite channels easily. If you set to AUTO, the last five channels you selected with the 0-9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

Setting your favorite channels



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🕁.
- 3 Press + or + to select FAVORITE CHANNEL and press 🕀.







4 Press ⊕ and press + or + to select AUTO or MANUAL, and press .







If you select AUTO, skip steps 5 and 6. The last five channels you selected with the 0-9 buttons are automatically set as your favorite channels.

If you select MANUAL, the favorite channel numbers become white, indicating that favorite channels can be entered.

5 Press + or + to select a favorite channel number, and press 🕀.







6 Press + or + to select the channel that you want to set as your favorite channel, and press (+).







7 Press MENU to return to the original screen.

- . If the FAVORITE CHANNEL menu appears in gray, the projection TV is set to a video input and you cannot select FAVORITE CHANNEL.
- · If more than 90 seconds elapse after you press another button, the menu disappears automatically.
- The favorite channel feature is not available for the AUX input.

Selecting your favorite channel



1 Press (F). The FAVORITE CHANNEL menu appears.





2 Press + or + to select the favorite channel you want to watch, and press . The selected channel appears on the screen.



To cancel the FAVORITE CHANNEL menu Press ♦ or ♥ to select "Exit," and press ⊕.



The video label feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 as



- 1 Press MENU.
- 2 Press + or + to select 🖨, and press 🕁.
- 3 Press + or + to select VIDEO LABEL, and press 🕀.







4 Press + or + to select the input mode you want to label, and press .







5 Press + or + to select the label, and press







Each time you press ♦ or ♦, the label changes as

VIDEO 1 (for all models)

VIDEO 1
$$\leftrightarrow$$
 VHS \leftrightarrow 8 mm \leftrightarrow BETA

1
DBS \leftrightarrow DVD \leftrightarrow S VIDEO \leftrightarrow LD

VIDEO 2 (for KP-46C36 only)

VIDEO 2 \leftrightarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

1
DBS \leftrightarrow DVD \leftrightarrow S VIDEO \leftrightarrow LD

VIDEO 2 (for KP-48S35/53S35/61S35 only)

VIDEO 2 \leftrightarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

1
DBS \leftrightarrow DVD \leftrightarrow LD

VIDEO 3 (for KP-46C36 only)

VIDEO 3 \leftrightarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

1
DBS \leftrightarrow DVD \leftrightarrow LD

1
DBS \leftrightarrow DVD \leftrightarrow LD

6 Repeat steps 4 and 5 to label other input modes.

 If more than 90 seconds elapse before you press another button, the menu disappears automatically



Some programs are broadcast with Caption Vision To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu CC1, CC2, CC3, or CC4 shows you on-screen version of the dialogue or sound effects of a program (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you on-screen information presented using either half or the whole screen. It is not usually related to the program



- 1 Press MENU.
- 2 Press + or + to select □, and press ⊕.







3 Press + or + to select the caption type, and press 🕀







4 Press MENU to return to the original screen.

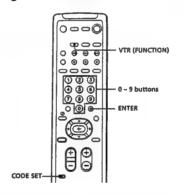
To display Caption Vision Press DISPLAY (See page 20 for details)

- · Poor reception of TV programs can cause errors in Caption Vision and XDS
- Captions may appear with a white box or other errors instead of a certain word.
- · XDS, Caption Vision, and the status display cannot be used at the same time
- · For details on XDS, see page 20

Operating video equipment

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared remote sensor. For this operation, set the manufacturer's code number.

Setting the manufacturer's code



Press the CODE SET, VTR (FUNCTION), and 0 - 9 buttons to enter the manufacturer's code number (see the chart on page 35-36), then press ENTER.

For example, to operate a Sony 8 mm VCR, press CODE SET, VTR (FUNCTION), 3, 0, 2, and

VCR manufacturer code numbers

Manufacturer	Code number
Sony	301, 302, 303
Aiwa	338
Audio Dynamic	314, 337
Beil & Howell (M Wards)	330, 343
Brocsonic	319
Canon Citizen	309, 308
	332
Craig Curtis Mathis	315, 302, 332
Daewoo	304, 338, 309 341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Goldstar	332
Hitachi	306, 304, 305
Instant Replay	309, 308
JC Penny	309, 305, 304, 330, 314,
	336, 337
ľvc	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330,
	335
Magnavox	308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337 309, 308
Olympic Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309
Pioneer	308
Quasar	308, 309
RCA/PROSCAN	304, 305, 308, 309, 311,
	312, 313
Realistic	309, 330, 328, 335, 324,
	338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323,
•	324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M Wards)	338, 327
Sylvania	308, 309, 338
Symphonic	338
l'ashiro	332
l'atung l'eac	314, 336, 337
reac Fechrucs	314, 336, 338, 337 309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zeruth	331

MDP manufacturer code numbers

Manufacturer	Code number		
Sony	701		
Kenwood	707		
Magnavox	703		
Maranz	702		
Mitsubishi	702		
Panasonic	704		
Philips	703		
Pioneer	702		
RCA	702		
Sanyo	706		
Sharp	705		
Yamaha	703		

Notes

- . If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- . In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. This is because your equipment may use a code that is not included with this remote control. In this case, please use the equipment's own remote control unit.
- . The code numbers for Sony equipment are assigned at the factory as follows:

VHS VCR

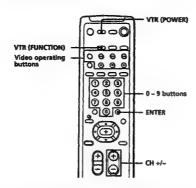
301 (preset code for the supplied remote control)

8 mm VCR

Beta, ED Beta VCRs 303

· Whenever you remove the batteries --- to replace them, for example - if too much time is taken, the code number may revert to the factory setting and must be reset.

Operating video equipment



Use the video operating buttons on the remote control to operate the video equipment. Press VTR (FUNCTION) before operating the video equipment.

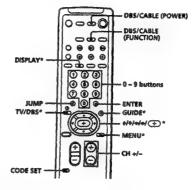
Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To select a channel directly	Press the 0 - 9 buttons.
To change channels	Press CH +/
To record	Press while pressing . First release, then release.
To play	Press .
To stop	Press B.
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press ii. To resume normal playback, press again
To search the picture forward or backward	Press ➤ or ◄ during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To play	Press ►.
To stop	Press W.
To pause	Press II. To resume normal playback, press again
To search the picture forward or backward	Keep pressing ▶ or ◄ during playback. To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/

· If the video equipment does not have a certain function, the corresponding button on this remote control will not operate.

Operating a cable box or DBS receiver

You can program the supplied remote control to operate a cable box or DBS receiver. Follow the procedures below to set the manufacturer's code number in the remote control.



- * The TV/DBS, GUIDE, DISPLAY, +/+/+/
 , and MENU buttons can be used only with a DBS receiver.
- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



2 Press the CODE SET, DBS/CABLE (FUNCTION), and 0 - 9 buttons to enter the manufacturer's code number (see the chart on the right column), then press ENTER. For example, to program your remote control to operate a Sony DBS receiver, press CODE SET, DBS/CABLE (FUNCTION), 8, 0, 1, and ENTER.



3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.



4 Use the cable box/DBS control buttons to check If the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0-9 and ENTER buttons.

. If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote control will

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or **DBS receiver**

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

 First, try repeating the setup procedures using the other codes listed for your equipment.

Manufacturer code numbers (cable box)

Manufacturer	Code number
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 215
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for the supplied remote control)
RCA	802

- · If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote control and you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries to replace them, for example - if too much time is taken, the code numbers may revert to the factory setting and must be reset.

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- → Make sure the power cord is connected securely.
- → Operate with the buttons on the projection TV.
- Insert the batteries in the remote control with the correct polarity.
- Replace the batteries with new ones if they are weak.
- → Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO1, 2, or 3 (for KP-41T35 only).
- Try another channel. It could be station trouble. → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

Poor or no picture (screen lit), good sound

- → Adjust PICTURE in the VIDEO menu. (page 23)
- → Adjust BRIGHTNESS in the VIDEO menu.
- (page 23) ⇒ Adjust convergence. (page 16)
- → Check antenna/cable connections. (page #)
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition.
- (page 14) Remove objects from the front of the projection TV.

Good picture, no sound

- → Press MUTING so that "MUTING" disappears from the screen. (page 19)
- → Check the MTS setting in the AUDIO menu. (page 27)
- → Make sure SPEAKER is set to ON in the AUDIO menu. (page 27)
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

No color

- → Adjust the COLOR in the VIDEO menu. (page
- → Confirm that black and white program is not being broadcast.
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

- Only snow and noise appear on the screen

 Check the CABLE setting in the SET UP menu. (page 17)
 - → Check the antenna/cable connections. (page 6)
 - → Make sure the channel is broadcasting
 - Press TV (black button) to change the input mode. (page 20)

Dotted lines or stripes

- Adjust the antenna
- Move the projection TV away from noise sources such as cars, neon signs, and hair-

Double images or ghosts

 Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- → If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO
- → Check the CABLE setting in the SET UP menu.

Cannot receive upper channels (URF) when using an

- → Make sure CABLE is OFF in the SET UP menu. (page 17)
- → Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Cannot receive any channels when using

- → Make sure CABLE is ON in the SET UP menu. (page 17)
- → Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Remote control does not operate

- → Batteries could be weak. Replace the batteries. (page 13)
- → Make sure the projection TV's power cord is connected securely to the wall outlet.
- → Press TV (FUNCTION) when operating your projection TV.
- Are fluorescent lights too close to the projection TV? Move them at least 3-4 feet away from the projection TV.

Cannot gain enough volume when using a cable box

Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

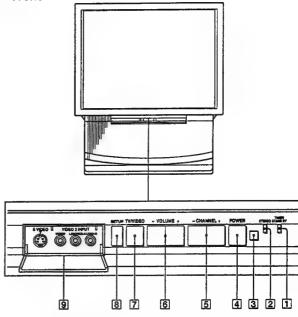
The projection TV needs to be cleaned

Clean the projection TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

Index to parts and controls

This section briefly describes the buttons and controls on the projection TV and on the Remote control. For more information, refer to the pages next to each description.

Projection TV — Front



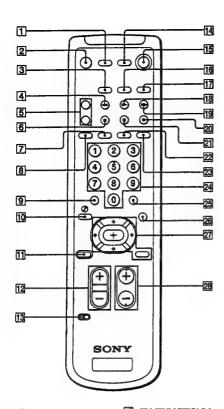
- 1 TIMER/STANDBY indicator (pages 19, 30)
- 2 STEREO indicator (page 27)
- 3 Remote sensor
- 4 POWER switch (page 14)
- 5 CHANNEL +/- buttons (page 14)

- 6 VOLUME +/- buttons (page 14)
- 7 TV/VIDEO button (page 14, 15)
- 8 SETUP button (page 14)
- 9 S VIDEO/VIDEO 2 INPUT (VIDEO/AUDIO L(MONO)/R) jacks (for KP-46C36 only) (page 10)

Additional Information

N

Remote control



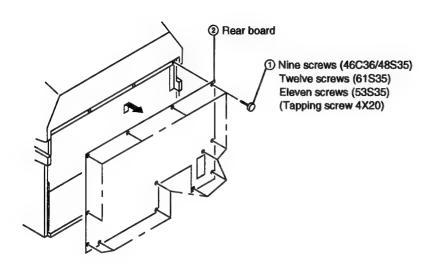
- 1 VTR (POWER) switch (page 36)
- 2 MUTING button (page 19)
- 3 VTR (FUNCTION) button (page 35)
- 4 FREEZE button (page 22)
- 5 TV/VTR CH +/- buttons (Yellow labelled button) (page 21)
- 6 POSITION button (page 22)
- DISPLAY button (page 20)
- 8 SLEEP button (page 20)
- 9 JUMP button (page 19)
- 10 TV/DBS @ button (page 26, 37)
- [1] RESET button (page 23)
- 12 VOL (volume) +/- buttons (page 19)
- 13 CODE SET button (page 35)
- 14 DBS/CABLE (POWER) switch (page 37)
- 15 TV (POWER) switch (page 19)
- 16 DBS/CABLE (FUNCTION) button (page 37)

- TV (FUNCTION) button (pages 15, 19)
- 18 SWAP button (page 22)
- 19 PIP button (page 21)
- 20 TV/VIDEO button (yellow labelled button) (page
- 21 AUDIO button (page 21)
- 22 TV/VIDEO button (page 20)
- 23 TV button (black button) (page 20)
- 24 0 9 buttons (page 16)
- 25 ENTER button (page 16)
- 26 MTS/GUIDE button (page 27, 37)
- 27 Menu operation buttons (page 15)
 - MENU button
 - */*/*/ buttons
 - ① button
- 28 CH (channel) +/- buttons (pages 16, 19)

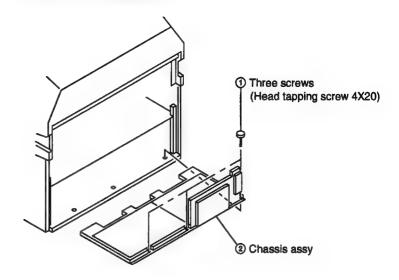
Additional Information | 41-EN

SECTION 2 DISASSEMBLY

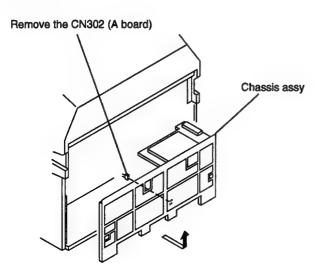
2-1. REAR BOARD REMOVAL



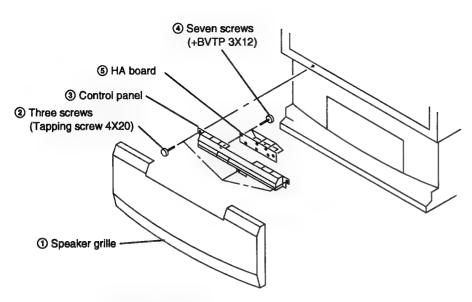
2-2. CHASSIS ASSY REMOVAL



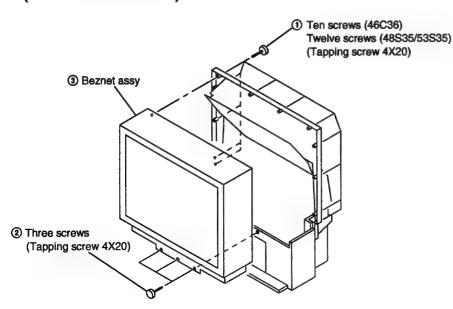
2-3. SERVICE POSITION



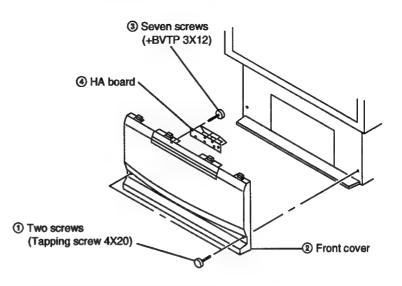
2-4-1. HA BOARD REMOVAL (KP-46C36)



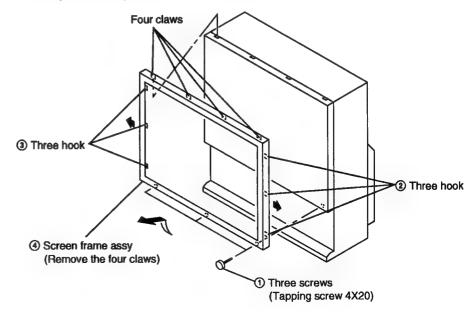
2-5-1. BEZNET ASSY REMOVAL (KP-46C36/48S35/53S35)



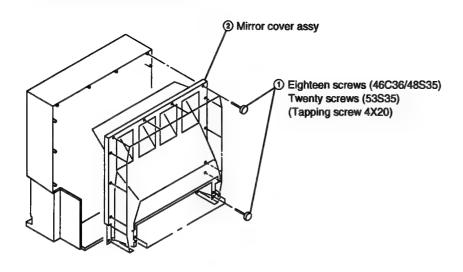
2-4-2. HA BOARD REMOVAL (KP-48S35/53S35/61S35)



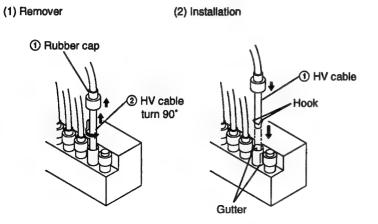
2-5-2. SCREEN FRAME ASSY REMOVAL (KP-61S35)



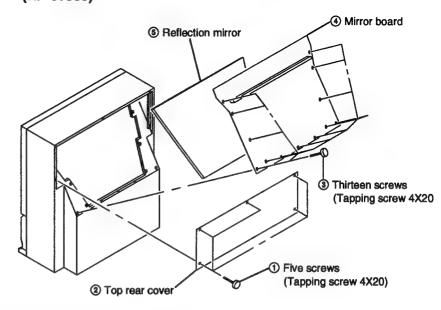
2-6-1. MIRROR COVER ASSY REMOVAL (KP-46C36/48S35/53S35)



2-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

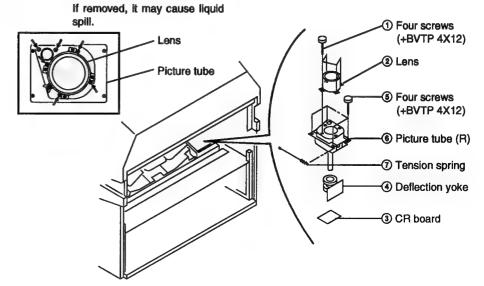


2-6-2. REFLECTION MIRROR REMOVAL (KP-61S35)



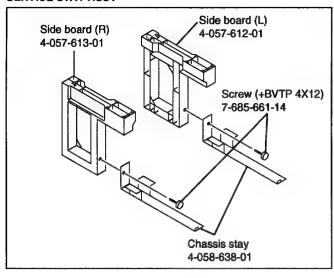
2-8. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly inhibited.



SERVICE STAY ASSY.

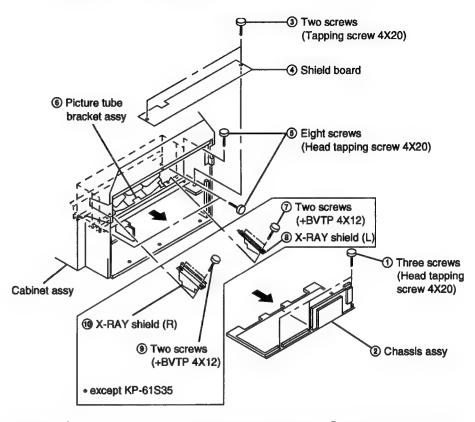
SERVICE STAY ASSY



2-9-1. SERVICE STAY ASSY HOW TO USE AND CARRY BACK

2-9-2. PICTURE TUBE BRACKET ASSY REMOVAL

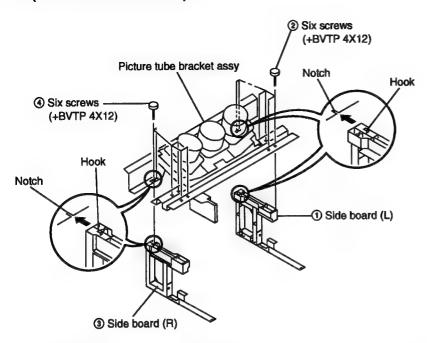
- Disassemble HA board and speaker cord.
- Disassemble all the harness from purse lock.



- Remove ① three screws (head tapping screw 4X20) and pull out ② chassis assy from cabinet assy.
- 2) Remove ③ two screws (tapping screw 4X20) and remove ④ shield board.
- 3) Remove (a) eight screws (head tapping screw 4X20) and release (a) picture tube bracket assy from cabinet assy.
 - 4) Remove ① two screws (+BVTP 4X12) and remove ⑧ X-RAY shield (L).
 - 5) Remove (a) two screws (+BVTP 4X12) and remove (b) X-RAY shield (R).

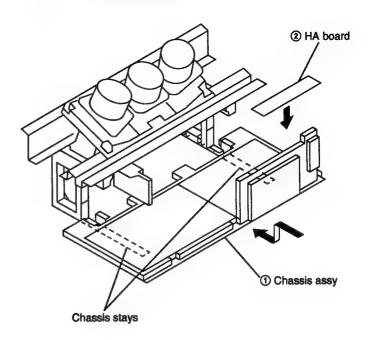
 except KP-61S35

2-9-3. SETTING OF SERVICE STAY ASSY. (KP-46C36/48S35/53S35)

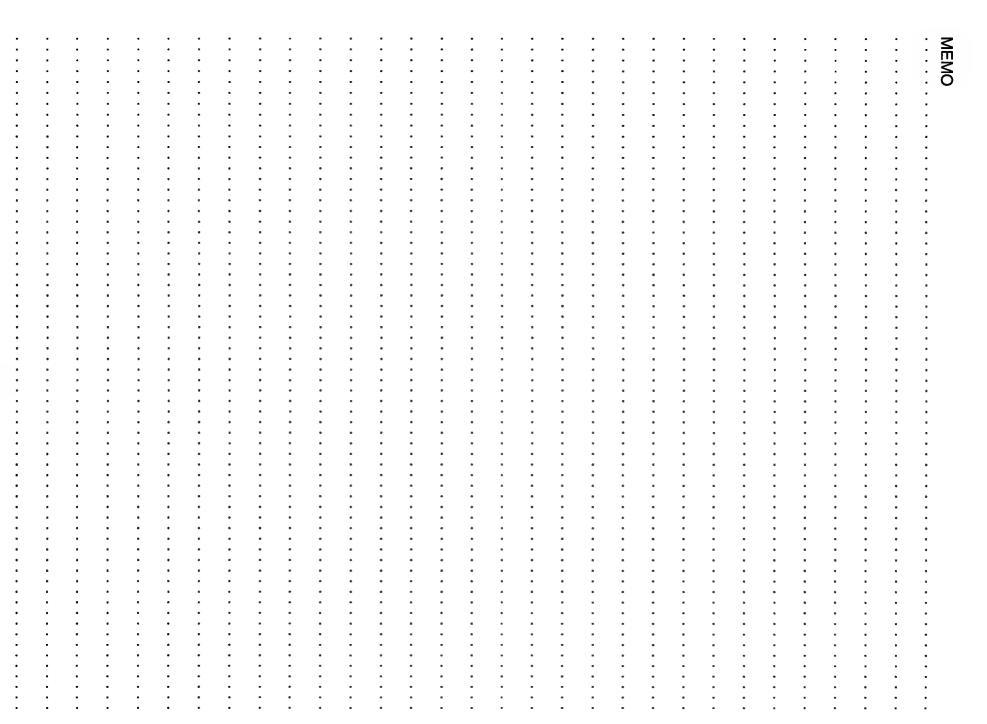


- 1) Lift up picture tube bracket assy and fit the hook of ① side board (L) to the notch on the assy. Then fix then with ② six screws (+BVTP 4X12).
- 2) Lift up picture tube bracket assy and fit the hook of ③ side board (R) to the notch on the assy. Then fix then with ④ six screws (+BVTP 4X12).

2-9-4. INSTALL A CHASSIS ASSY



- 1) Put ① chassis assy on chassis stays.
- 2) Put ② HA board on ① chassis assy.
- 3) You can carry the chassis assy in this condition.



SECTION 3 SET-UP ADJUSTMENTS

SEI-OF ADJUSTMENTS						
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER		
SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT) 1. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line. 2. Next gradually turn it to the left to the position where the retrace line disappears. FOCUS LENS ADJUSTMENT 1. Loosen the lens screw. 2. Set in service mode. 3. Use VP on the service mode menu to show only the green colour. 4. Press the Commander Menu button and select FEATURES and CONVERGENCE to display the test signal on the screen. 5. Rotate the green lens and align with the optimal focus point from the test signal. 6. Use RG-RH from the service mode menu to set to green and red. 7. Disply the test signal and rotate the red lens to obtain the optimum focus at the point where the red and green spots overlap. 8. Use RG-BH from the service mode menu to set to red and blue. 9. Disply the test signal and rotate the blue lens to obtain the optimum focus at the point where the blue and red spots overlap. 10. Tighten the lens screw. SCREEN (G2) ADJUSTMENT 1. Select VIDEO mode without signals. 2. Connect the G2 JIG between TP732 (200V) and TP733 (GND) on the CG Board. 3. Connect an oscilloscope to the TP701 (KR), TP702 (KG) and TP703 (KB) of CR board, CG board and CB board. 4. Adjust 170~173V (KR, KG, KB) by rotating screen VR on the focus block.	Monoscope Pattern		PICTUREminimum BRIGHTNESS50% SCREEN (G2)	CONVERGENCE		

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 Set in service mode. Use VP on the service mode menu to show only the green colour. Press the Commander Menu button (convergence) and output the test signal. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point. Use RG-RH from the service mode menu to set to green and red. Disply the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap. Use RG-BH from the service mode menu to set to red and blue. Disply the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap. 				FOCUS block Scanning line visible. Minimize both A and B.
 DEFLECTION YOKE TILT ADJUSTMENT Set in service mode. Set to receive the monoscope signal. Use VP on the service mode menu to show only the green colour. Loosen the deflection yoke set screw and align the tilt of the deflection yoke so that the bars at the centre of the monoscope pattern are horizontal. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT. The tilt of the deflection yoke for red is aligned with RG-RH on the service mode menu, and the tilt on the deflection yoke for blue is aligned with RG-BH on the service menu, is aligned the same as was done for green. 	Monoscope pattern			4-pole magnet Deflection yoke Neck Assy Anode cap

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT	MEASUREMENT	ADJUSTMENT	ILLUSTRATION AND SHAPE
ASSOCIATION AND THOUSAND	AND SIGNAL	POSITION	LOCATION	AND NUMBER
4-POLE MAGNET ADJUSTMENT				
Set in service mode. Set to receive the dot pattern signal. Please the core on the red and blue long so that only the receive.	Dot pattern		4-pole magnet	Use the center dot
 Place the caps on the red and blue lens so that only the green colour is showing. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle. 				x:y=1:2
DEFOCUS ADJUSTMENT				
 Receive the crosshatch signal. Adjust the Blue FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right. Blue only defocus Adjustment. 	Crosshatch pattern		FOCUS VR • BLUE	• Focus adjustment point a b a: b=1:4

ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y136A), all circuit adjustments can be made.

NOTE: Test Equipment Required.

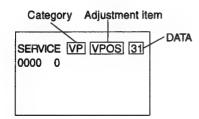
- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

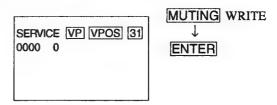
- 1. Standby mode. (Power off)
- 2. $\boxed{\text{DISPLAY}} \rightarrow \boxed{5} \rightarrow \boxed{\text{VOL}(+)} \rightarrow \boxed{\text{TV POWER}}$ on the Remote Commander. ($\boxed{+} \rightarrow \boxed{5} \rightarrow \boxed{} \rightarrow \boxed{}$) (Press each button within a second.)

SERVICE MODE ADJUSTMENT



- 3. The CRT displays the item being adjusted.
- 4. Press 1 or 4 on the Remote Commander to select the adjustment item.
- 5. Press 3 or 6 on the Remote Commander to change the data.
- 6. Press 2 or 5 on the Remote Commander to select the category.
- 7. If you want to recover the latest values press 7 then ENTER to read the memory.
- 8. Press MUTING then ENTER to write into memory.

SERVICE ADJUSTMENT MODE MEMORY



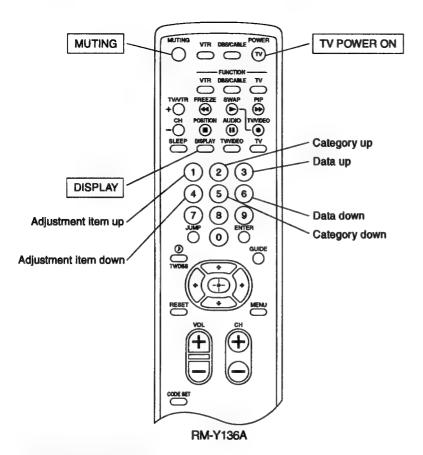
- 8. Press 8 then ENTER on the Remote Commander to initialize.
- 9. Turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
- 2. Turn the power switch ON and set to Service Mode.
- 3. Call the adjusted items again and confirm they were adjusted.

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3. ADJUST BUTTONS AND INDICATOR



4. SERVICE MODE LIST

VP

Category	Adjustment item	Standard data	Note	Device
VP	VPOS		V SHIFT	
	VSIZ		V SIZE	
ŀ	VCOM	0	HV-COMP-V	
	VLIN	7	VLIN	
	VSCO	7	S CORRECTION	
	HPOS	7	н ѕнігт	
	HSIZ		H SIZE	
	PAMP		PIN AMP	

Category	Adjustment item	Standard data	Note	Device
VP	UPIN	7	UPPER CORNER PIN	
	LPIN	7	LOWER CORNER PIN	
	PPHA	7	HTRAPEZOID	
	APC	2	AFC LOOP GAIN	
	VBOW	7	VBOW	
1	VANG	7	VANGLE	
	REF	3	AKB REFERENCE	
	GDRV		GREEN DRIVE	
	BDRV		BLUE DRIVE	
1	GCUT		GREEN CUT OFF	
	BCUT	1	BLUE CUT OFF	
	SCON	1	SUB CONTRAST	
	SHUE		SUB HUE	
	SCOL		SUB COLOR	
	SBRT		SUB BRIGHTNESS	
	SSHP	7	SUB SHARPNESS	
	GMMA	1	GAMMA LEVEL	
	CDM2	0	COUNT DOWN MODE 2	
	DPIX	1	DYNAMIC PICTURE	
l i	Y-DC	1	DC TRANSMISSION RATIO	
	ABLM	1	ABL MODE	
	AXIS	0	R-Y, G-Y AXIS	
	NOTC	0	CTRAP	
	CROM	7	CTRAPFO	
!	TOT	0	C TOT FILTER	
	PREL	3	PRE/OVER LEVEL	+
	SHPF	1	SHARPNESS FO	
	RON		RED ON/OFF	
	GON		GREEN ON/OFF	
	BON		BLUE ON/OFF	1
	DCOL		DYNAMIC COLOR	
	CDMD	0	V COUNT DOWN	
	LBLK	13	H BLK WIDTH LEFT SIDE	
	RBLK	13	H BLK WIDTH RIGHT SIDE	

AP

Category	Adjustment item	Standard data	Note	Device
AP	SVOL	0	SUB VOLUME	
	SBAL	0	SUB BLANCE	
	SBAS	7	SUB BASS	
	STRE	7	SUB TREBLE	

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Category	Adjustment item	Standard data	Note	Device
RG	GH CENT		GREEN H SENT	
	GH SKEW		GREEN H SKEW	
	GH BOW		GREEN H BOW	
	GH 4BOW		GREEN H 4TH BOW	1
	GH SIZE		GREEN H SIZE	
	GH LIN		GREEN H LINEARITY	
	GH MSIZ		GREEN H MID SIZE	
	GH MLIN		GREEN H MID LINEARITY	
	GH KEY		GREEN H KEY	
	GH SSKW		GREEN H SUB SKEW	
	GH MPIN		GREEN H MID PIN	
	GH PIN		GREEN H PIN	
	GH SBOW		GREEN H SUB BOW	
	GH MBOW		GREEN H MID BOW	
	GH 4PIN		GREEN H 4TH PIN	
	GH 4BOW		GREEN H 4TH BOW	
	GV CENT		GREEN V CENT	
	GV SKEW		GREEN V SKEW	
	GV BOW		GREEN V BOW	
	GV SIZE		GREEN V SIZE	
	GV LIN		GREEN V LINEARITY	
	GV MSIZ		GREEN V MID SIZE	
	GV MKEY		GREEN V MID KEY	
	GV KEY		GREEN V KEY	
	GV SSKW		GREEN V SUB SKEW	
	GV MPIN		GREEN V MID PIN	
	GV PIN		GREEN V PIN	
	GV SBOW		GREEN V SUB BOW	
	GV WAVE		GREEN V WAVE	
	GV 4PIN		GREEN V 4TH PIN	
	RH CENT		RED H CENT	
	RH SKEW		RED H SKEW	
İ	RH BOW		RED H BOW	
	RH 4BOW		RED H 4TH BOW	
İ	RH SIZE		RED H SIZE	1
	RHLIN		RED H LINEARITY	
	RH MSIZ		RED H MID SIZE	
	RH MLIN		RED H MID LINEARITY	
	RH KEY		RED H KEY	
1	RH SSKW		RED H SUB SKEW	
}	RH MPIN		RED H MID PIN	1
ł	RH PIN		RED H PIN	
l	RH SBOW		RED H SUB BOW	
	RH MBOW		RED H MID BOW	1

Category	Adjustment item	Standard data	Note	Device
RG	RH 4PIN		RED H 4TH PIN	
	RH 4BOW		RED H 4TH BOW	
	RV CENT		RED V CEVT	
	RV SKEW]	RED V SKEW	
	RV BOW		RED V BOW	
	RV SIZE		RED V SIZE	
	RV LIN		RED V LINEARITY	
	RV MSIZ		RED V MID SIZE	
	RV MKEY		RED V MID KEY	
	RV KEY		RED V KEY	
	RV SSKW		RED V SUB SKEW	
	RV MPIN		RED V MID PIN	
	RV PIN		RED V PIN	
	RV SBOW		RED V SUB BOW	
	RV WAVE		RED V WAVE	
	RV 4PIN		RED V 4TH PIN	
	RV WING		RED V WING	
	BH CENT		BLUE H CENT	
	BH SKEW		BLUE H SKEW	
	BHBOW		BLUE H BOW	
	BH 4BOW		BLUE H 4TH BOW	
	BHSIZE		BLUE H SIZE	
	BHLIN		BLUE H LINEARITY	
]	BH MSIZ		BLUE H MID SIZE	
	BHMLIN		BLUE H MID LINEARITY	
	BH KEY		BLUE H KEY	
	BHSSKW		BLUE H SUB SKEW	İ
	BH MPIN		BLUE H MID PIN	
	BHPIN		BLUEHPIN	İ
	BH SBOW		BLUE H SUB BOW	
Í	BH MBOW		BLUE H MID BOW	
	BH 4PIN		BLUE H 4TH PIN	
İ	BH 4BOW		BLUE H4TH BOW	
	BV CENT		BLUE V CENT	
	BV SKEW		BLUE V SKEW	
	BVBOW		BLUE V BOW	
	BV SIZE		BLUE V SIZE	
	BVLIN		BLUE V LINEARITY	
1	BVMSIZ		BLUE V MID SIZE	
ļ	BV MKEY		BLUE V MID KEY	
ł	BV KEY		BLUE V KEY	
	BV SSKW		BLUE V SUB SKEW	
	BV MPIN		BLUEVMIDPIN	
	BV PIN		BLUEVPIN	

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Category	Adjustment item	Standard data	Note	Device
RG	BV SBOW		BLUE V SUB BOW	
	BV WAVE		BLUE V WAVE	
	BV 4PIN		BLUE V 4TH PIN	
	BVWING		BLUE V WING	

CC

Category	Adjustment item	Standard data	Note	Device
cc	CRIH	9	CRI COUNT HIGH	
	CRIL	2	CRI COUNT LOW	1
	CR2L	2	CRI COUNT LOW(F2)	
	CCDI	3	NO CCD INT COMPARE	
	CRIP	7	CRI & PARITY ERROR	
	CRIT	0	CRI TIME CONSTANT	
	CSB1	2	SYNC SLICE BIAS 1	
	CSB2	5	SYNC SLICE BIAS 2	
	CCBD	4	C SYNC BACKPORCH DET	
	CCFD	7	C SYNC FRONTPORCH DET	
	CREP	136	CRI SIGNAL END POSITION	
	CSEP	176	START BIT END POSITION	
	CRBD	8	CRI BACKPORCH DET	
	CRFD	9	CRI FRONTPORCH DET	
	CSSD	3	STROBE WINDOW ST DLY	
	CSED	9	STROBE WINDOW ED DLY	
	CSBS	12	START BIT THRESHOLD	
	CDSD	8	DATA START DELAY	
	CCDS	9	CAPTION DT THRESHOLD	
	CHMK	38	H SYNC MASK WIDTH	1
	CHSY	144	H SYNC VCO COUNT	

OP

Category	Adjustment item	Standard data	Note	Device
OP	DISP		OSD POSITION	

ID

Category	Adjustment item	Stan da		Note	Device
		S	46C		
ID	IDO	25	25	MODEL ID#0	
ł	ID1	21	55	MODEL ID#1	
	ID2	31	31	MODEL ID#2	

Category	Adjustment item	Stan da		Note	Device
		S	46C		
ID	ID3	00	00	MODEL ID#3	
	ID4	155	155	MODEL ID#4	
	ID5	177	177	MODEL ID#5	
	ID6	198	198	MODEL ID#6	
	ID7	66	66	MODEL ID#7	

PP

Category	Adjustment item	Standard data	Note	Device
PP	BGHP	-	PIP H POSITION	
	BGVP	-	PIP V POSITION	
	MAHP	-	P&P MAIN H AQUISITION	
	MAVP	-	P&P MAIN V AQUISITION	
	SAHP	-	P&P SUB H AQUISITION	
	SAVP	_	P&P SUB V AQUISITION	
	DECS	-	S DECODER REGISTERS	
	DECM	-	M DECODER REGISTERS	
	DIS	-	DISPLAY SETTING	
	BHSZ	-	BORDER H SIZE	
	BVSZ	-	BORDER V SIZE	
	VPED		V OFFSET	
	UPED	-	U OFFSET	

PS

Category	Adjustment item	Standard data	Note	Device
PS	PIPH		PIP H POSITION	
l	PIPV		PIP V POSITION	
	PMVD	16	PIP V PULSE DELAY(M)	
	PIVD	22	PIP V PULSE DELAY(I)	1
ı	PCON		PIP CONTRAST(I)	
	FRMY	7	PIP FRAME Y LEVEL	l
- 1	IPER	0	PIP PEDESTAL R-Y(I)	
1	IPEB	0	PIP PEDESTAL B-Y(I)	ļ
İ	IHUE		PIP SUB HUE	ĺ
	ICOL	ł	PIP SUB COLOR]
I	PHDL.	3	PIP H PULSE DELAY	
- 1	PYSD	0	PIP SELECT DELAY	
[PYDL	0	PIPY DELAY	
	PCPS	0	PIP CLP	
-	PCPF	0	PIPCLPCYCLES	
l	PSEL	0	PIP SELDOWN	

Category	Adjustment item	Standard data	Note	Device
PS	PPLL	0	PIP PLL	
	CHRI	1	PIP INPUT POLARITY	
	CHRO	0	PIP OUTPUT POLARITY	

MC

Category	Adjustment item	Standard data	Note	Device
МС	MSCN	-	P&P MAIN SUB CONTRAST	
	MSHU	-	P&P MAIN SUB HUE	
	MSCL	-	P&P MAIN SUB COLOR	
i i	MUPD	-	P&P MAIN U OFFSET	
	MVPD	-	P&P MAIN V OFFSET	
1	MDLY	-	P&P MAINY DELAY	
	MBGR	-	P&P MAIN SCP CONTROL(1)	1
Į,	MBGF	-	P&P MAIN SCP CONTROL(2)	

IC

Category	Adjustment item	Standard data	Note	Device
IC .	SSCN		P&P SUB SUB CONTRAST	
	SSHU	-	P&P SUB SUB HUE	1
	SSCL	-	P&P SUB SUB COLOR	-
	SUPD	-	P&P SUB U OFFSET	
	SVPD	-	P&P SUB V OFFSET	
	SDLY	-	P&P SUB Y DELAY	
	SBGR	-	P&P SUB SCP CONTROL(1)	
	SBGF	-	P&P SUB SCP CONTROL(2)	
	PAFC	-	PIP ARC LOOP GAIN	
	PTOT	-	PIP CHROMA TOT FILTER	
	PYDR	-	PIPY DRIVE	
	PYDC	-	PIPDCTRAN	
	PSHP	-	PIP SHARPNESS FO	
	PDPI	-	PIP DYNAMIC PICTURE	
	PSYS	-	PIP COLOR SYSTEM	1
	PXTL	-	PIP X' TAL	
	PLOP		PIP COLOR LOOP	}

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
CONVERGENCE ADJUSTMENT ●When replacing the deflection yoke, always perform "DEFLECTION YOKE TILT ADJUSTMENT" before adjusting the convergence.				
Adjustment procedure VP MAIN RG GH (SUB), RG GV (SUB) RG RH(SUB), RG RV (SUB) RG BH (SUB), RG BV (SUB)				
GREEN REGISTRATION ADJUSTMENT V-SHIFT adjustment	Monoscope pattern or Crosshatch		<vp menu=""> VP VPOS</vp>	VPOS -
V-LINEARITY adjustment	pattern		VP VSIZ	vsiz
V-SIZE, V-CORRECTION adjustment While tracking, adjust so that the lattice intervals for VSIZ and VSCO are equal.			VP VLIN VP VSCO	VLIN VSCO VSCO T T T T T T T T T T T T T

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
• H-SHIFT adjustment	AND GIGNAL	rosmon	VP HPOS	HPOS +
H-SIZE adjustment Finely adjust with SUB MSIZ.			VP HSIZ	HSIZ +
PIN-AMP adjustment Finely adjust with SUB MPIN.			VP PAMP	PAMP (((()))) ← (((())))
UPPER/LOWER-CORNER PIN adjustment Correct the screens top and bottom bow line. However, if this adjustment is overdone, distortion may occur with the PIN-AMP adjustment that can not be re-adjusted.			VP UPIN	UPIN →
Note: The PIN-AMP adjusts the overall screen from top to bottom, but the UPPER/LOWER-CORNER PIN adjustments have large movement in the top and bottom sections, so be careful.			VP LPIN	LPIN -
V-BOW, V-ANGLE adjustment Correct the tilt and bow of the vertical line at the center of the screen.			VP VBOW	VBOW ← (((((((((((((((((((((((((((((((((((
			VP VANG	VANG +

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN SUB ADJUSTMENT SCREEN CENTER SECTION GREEN VERTICAL LINE ADJUSTMENT			<rg-gh menu=""></rg-gh>	Watch out only for the
 Finely adjust with GH CENT, GH BOW, GH SKEW. Adjust by watching out for the RGH CENT screen center section. 			GH CENT GH SKEW GH BOW	GH CENT center point.
				Watch the vertical center line.
				GH CENT
				GH SKEW →
				GH BOW
GH 4TH BOW adjustment Correct the corner distortion that could not be adjusted away with the GH BOW adjustment.			GH 4BOW	GH 4BOW → □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
SCREEN CENTER SECTION GREEN HORIZONTAL LINE ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Finely adjust the center position of the vertical line at the center of the screen with GV CENT.			GV CENT	Watch the horizontal center line. Watch out only for the RGV CENT center point. GV CENT
Correct the tilt and bow of the horizontal line at the center of the screen with GV SKEW and GV BOW.			GV SKEW GV BOW	GV SKEW GV BOW GV BOW
 GREEN SIZE AND LINEARITY ADJUSTMENT Balance the sizes at both sides of the center section of the screen with GH MLIN. Balance the sizes on both end sections of the screen with GH LIN. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right. 			<rg-rh menu=""> GH MLIN GH LIN</rg-rh>	MLIN LIN

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 GREEN HORIZONTAL SIZE ADJUSTMENT Adjust with GH MSIZE so that the sizes of both ends and of both sides of the center section of the screen are equal. Adjust with GH SIZE so that the horizontal sizes of both ends and of both sides of the center section of the screen are equal. While tracking, adjust with GH MSIZ and GH SIZE so that the lattice intervals for the horizontal line section of the center section of the screen are equal and so that the horizontal size is the prescribed value. If M LIN is changed when the GH MSIZ and GH SIZE adjustment is complete, adjust again while tracking. 			<rg-gh menu=""> GH MSIZ GH SIZE</rg-gh>	MSIZ SIZE GH MUN GH MSIZ GH UN GH SIZE
With just the H SIZE adjustment in MAIN, if there is no need to adjust GH SIZE in SUB this can save power. GREEN VERTICAL LINEARITY ADJUSTMENT 1. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.			<rg-gv menu=""> GV LIN</rg-gv>	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 GREEN VERTICAL SIZE ADJUSTMENT Adjust with GV MSIZE so that the sizes for the top and bottom sections of the screen and for both sides of the center section of the screen are equal. Set the vertical size to the prescribed value with GV SIZE. Adjust GV MSIZ and GV SIZE watching the vertical line at the center section of the screen. While tracking, adjust with GV MSIZ and GV SIZE so that the lattice intervals for the vertical line section of the center section of the screen are equal and so that the vertical size is the regulation value. If GV LIN is out of place when the GV MSIZ and GV SIZE adjustment is complete, adjust again while tracking. If there is no need to adjust GV SIZE in SUB with just the V SIZE adjustment in MAIN, this can save power. 			<rg-gv menu=""> GV MSIZ GV SIZE</rg-gv>	MSIZ SIZE GV MSIZ
 GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT Adjust with GH SSKW so that the tilt of the vertical lines at both ends of the screen is symmetrical left and right. Adjust with GH KEY so that there is no tilt in the vertical lines at both ends of the screen. If there is a tilt on either the left or right after the GH KEY adjustment, adjust while tracking. 			<rg-gh menu=""> GH SSKW GH KEY</rg-gh>	SS KW () KEY

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 GREEN HORIZONTAL QUATERNARY ADJUSTMENT Correct the quaternary distortion with GH 4PIN. While balancing, correct the quaternary distortion of both end sections of the screen with GH 4SBO. While tracking, adjust with GH 4PIN and GH 4SBO. 			<rg-gh menu=""> GH 4PIN GH 4BOW</rg-gh>	4 PIN () 4 BO
 GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT Adjust with GH MBOW so that the pin asymmetry at both sides of the center section of screen is symmetrical. Adjust with GH SBOW so that the bow at both end sections of the screen is symmetrical left and right. While tracking, adjust with GH MBOW and GH SBOW so that the bow of vertical lines on the entire screen is symmetrical left and right. 			<rg-gh menu=""> GH MBOW GH SBOW</rg-gh>	M BOW S BOW

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT			<rg-gh menu=""></rg-gh>	
 Adjust the pin distortion at both sides of the center section of the screen with GH MPIN. Adjust the pin distortion at both end sections of the screen with GH PIN. While tracking, adjust with GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing. If there is asymmetrical pin distortion after the GH MPIN and GH PIN adjustments, adjust with GH MBOW and GH SBOW while tracking. 			GH MPIN GH PIN GH MBOW GH SBOW	M PIN
 With just the PIN AMP adjustment in MAIN, if there is no need to adjust GV PIN in SUB, this can save power. GREEN VERTICAL WAVE (TERTIARY DISTORTION) ADJUSTMENT 			<rg-gv menu=""></rg-gv>	GH MBOW GH SBOW GH MPIN
Take the screen top and bottom horizontal lines with GV WAVW and find the secondary and quaternary waveform.			GV WAVE	GV WAVE
2. There is KEY distortion after the GV WAVW adjustment, so adjust with GV WAVW and GV KEY while tracking.			GV KEY	GV KEY GH MPIN

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ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN VERTICAL QUATERNARY DISTORTION ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Correct the quaternary distortion of the horizontal lines at the top and bottom sections of the screen with RGV 4PIN.			GV 4PIN	GV 4PIN
 Since there is no 4SBOW for vertical correction, there will be a slight imbalance, but adjust to eliminate the distortion from the horizontal line at either the top or the bottom of the screen. In many cases, the horizontal lines at the top and bottom sections of the screen are not straight lines after the adjustment. As long as the secondary distortion is mild enough that it can be corrected with the PIN adjustment, this is OK. 				
GREEN VERTICAL TRAPEZOIDAL DISTORTION			<rg-gv menu=""></rg-gv>	
Adjust with GV SSKW so that the tilt of the horizontal lines at the top and bottom sections of the screen is symmetrical about			GV SSKW	GV SSKW
the center position horizontal line. 2. Adjust with GV MKEY so that there is no tilt for the line sections at both sides of the horizontal lines at the center section of the			GV MKEY	
stream. 3. Adjust with GV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen. 4. While tracking, adjust with GV MKEY and GV KEY so that there is no tilt for the horizontal lines on the entire screen.			GV KEY	MKEY KEY
5. If the tilt is unbalanced after the GV MKEY and GV KEY adjustment, adjust again with GV SSKW.			GV SSKW	GV SSKW GV MKEY

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (SECONDARY DISTORTION) ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Correct the asymmetrical pin distortion at the top and bottom sections of the screen with GV SBOW.			GV SBOW	RGV SBOW
GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT			<rg-gv menu=""></rg-gv>	
 Adjust the pin distortion for both side sections and the center of the screen with GV MPIN. Adjust with GV PIN so that the horizontal lines at the top and bottom sections of the screen are straight lines. Adjust with GV MPIN and GV PIN so that there is no curve in the horizontal lines on the entire screen. 			GV MPIN GV PIN	MPIN 1 PIN
4. After the adjustments in Items 1-3, adjust the tracking with GV SBOW, GV MPIN, and GV PIN.			GV SBOW	GV SBOW GV PIN

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN AND RED REGISTRATION ADJUSTMENT (RRH, RRV)				
 Receive a cross-hatch signal. Adjust so that the red lines lay on the green lines. Adjust with the same procedure as the GREEN SUBadjustment. 	Cross-hatch pattern			
 Notes: 1. The main correction is not carried out during red registration adjustment. 2. Beware. The green adjustment items can be changed by mistake. 3. Unlike for green, adjust within the range -127 ~ +128. 				
GREEN AND BLUE REGISTRATION ADJUSTMENT (RBH, RBV)				
 Receive a cross-hatch signal. Adjust so that the blue and green lines are on top of each other. 	Cross-hatch pattern			
 Notes: 1. The main correction is not carried out during RED registration adjustment. 2. Beware. The GREEN and RED adjustment items can be changed by mistake. 				

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT	ILLUSTRATION AND SHAPE
AGC ADJUSTMENT 1. Receive an off-air signal. 2. Adjust the AGC VR (TU 1001) so that there is no snow noise and cross-modulation. WHITE BALANCE ADJUSTMENT 1. Receive the monoscope pattern signal and adjust the picture quality with the menu. 2. Adjust service mode SBRT so that the signal 10 IRE section barely glows. 3. Receive the all-white pattern signal. 4. Adjust the white balance with service mode GCUT and BCUT. 5. Adjust service mode SBRT so that the signal 100 IRE section barely glows. 6. Adjust the white balance with service mode GDRV and BDRV. 7. Repeatedly adjust the white balance for the minimum and maximum picture settings.		POSITION	PICTUREminimun <rgb menu=""> RGB SBRT RGB GCUT RGB BCUT PICTUREminimun RGB GDRV RGB BDRV PICTUREmaximum</rgb>	AND NUMBER

SECTION 4 SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
[G BOARD] HV REGULATION CIRCUIT CHECK AND ADJUSTMENT		☐ marked parts C514, C516, C515,	☑ C514	Remove the cap off from the unused terminal and connect a static voltmeter
When replacing the following components marked with on the schematic diagram always check HV regulation, and if necessary readjust. OPERATION CHECK 1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 2. Power on the set. 3. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 4. Check that the HV static voltmeter is reading 31.00±1.0kVdc. HV Regulation adjustment 1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 2. Power on the set. 3. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 4. If anode voltage is 32kV or higher, replace C514 of 390PF/2kV with that of 680PF/2kV, and check if the voltage is within the standard range. 5. If anode voltage is 30kV or lower, replace C514 of 390PF/2kV with that of 100PF/2kV, and check if the voltage is within the standard range.		T502 (PMT), T503 (HLT), T504 (FBT), DEFLECTION YOKE, IC651		G BOARD -COMPONENT SIDE- C514 R561 CN505 R512 CN505

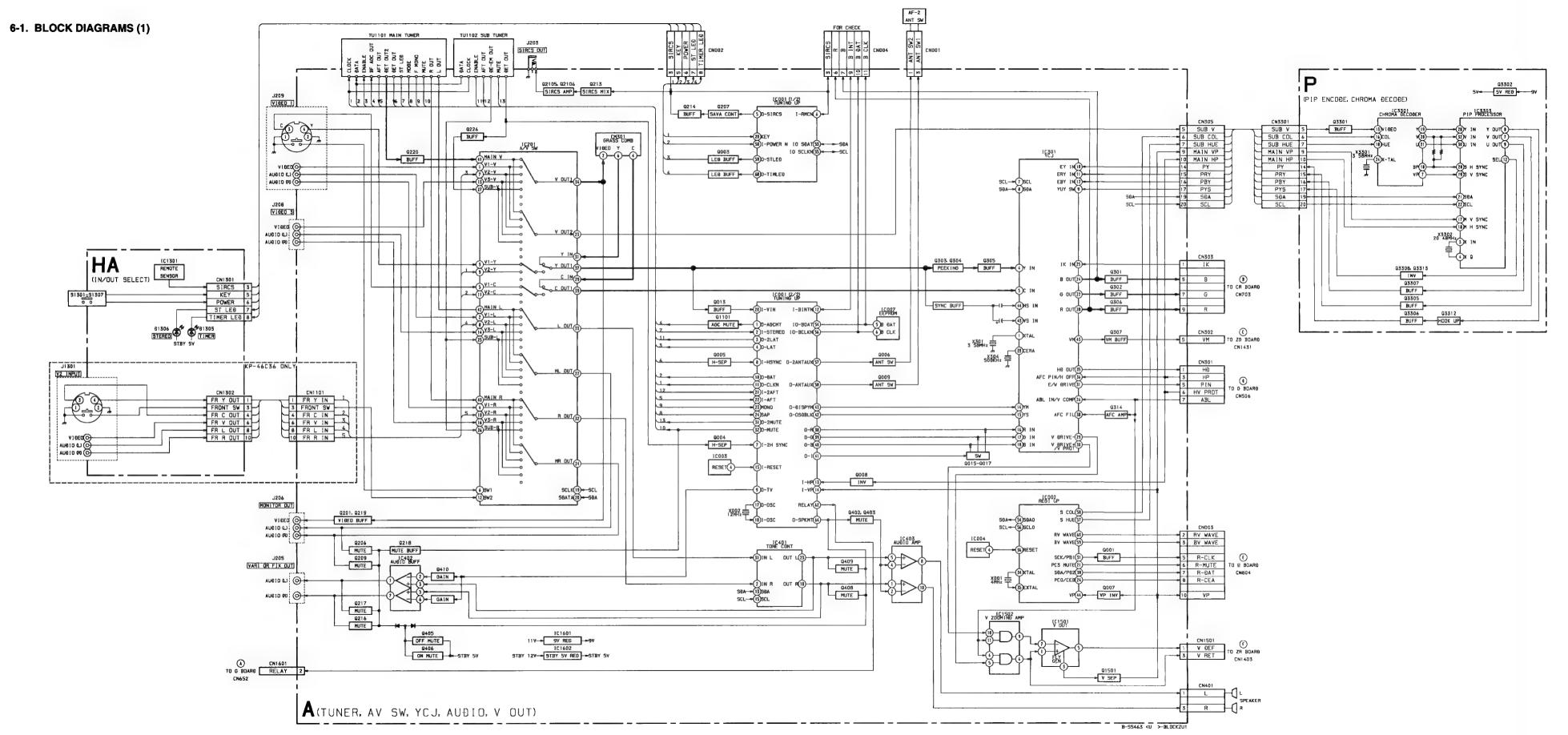
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
[G BOARD]				
+B MAX VOLTAGE CONFIRMATION				G BOARD -COMPONENT SIDE-
 The following adjustments should always be performed when replacing IC651. Supply 130VAC to variable autotransformer. Input dot signal. Set the PICTURE control and the BRIGHTNESS controls to minimum. Confirm if the voltage of G BOARD TP135V is less than 137.0 Vdc. If step 4 is not satisfied, replace IC651 and repeat above steps. 				C514 R561 R514 CN505 R512
 Remove CN651 connector. Connect a voltmeter to TP135V, and TP (PROT) and ground. Connect a 220kΩ variable resistor, across pin ③ and pin ⑤ of IC651, and set to maximum value. Supply 120VAC to variable autotransformer. Set PICTURE and the BRIGHTNESS controls to minimum. Gradually turn the 220kΩ variable register, and check if OVP works properly when the voltage of TP135V is between 139.0~151.5V. 				

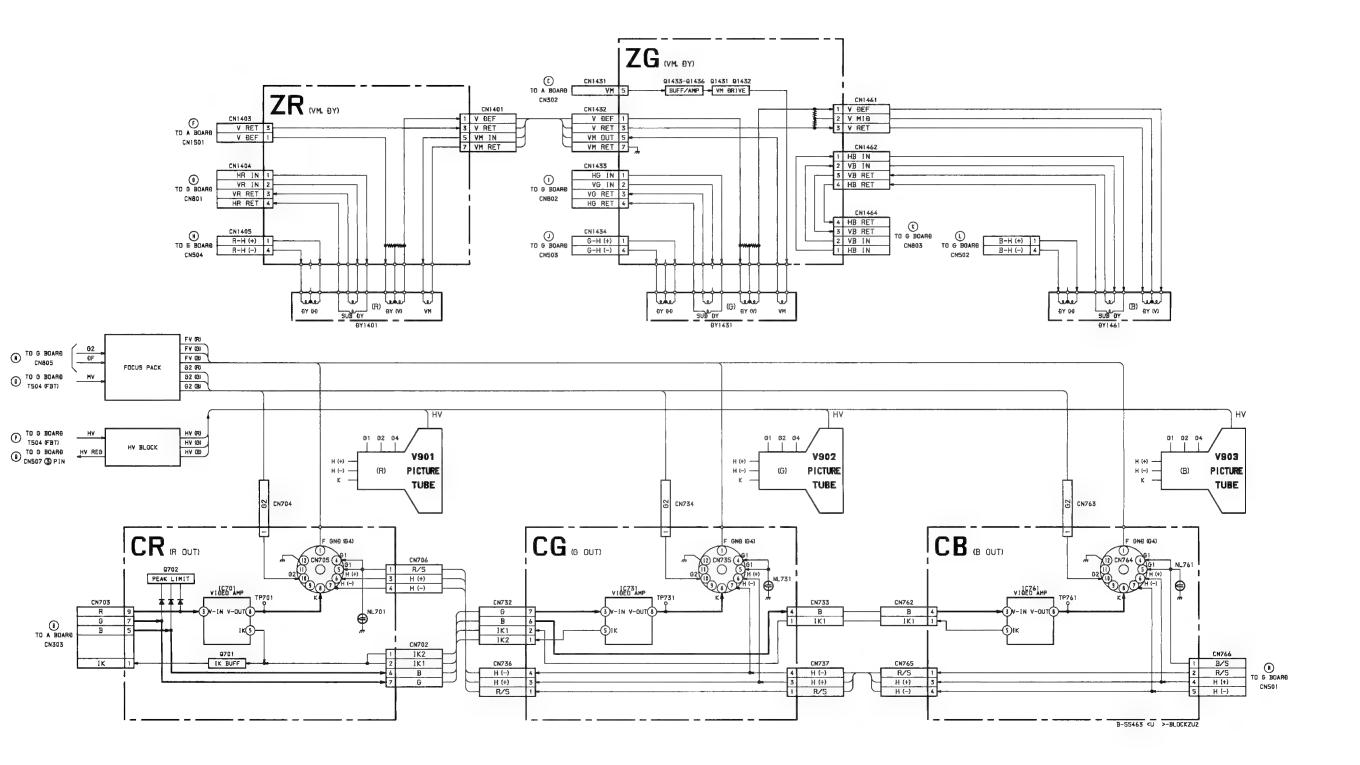
SECTION 5 CIRCUIT ADJUSTMENT

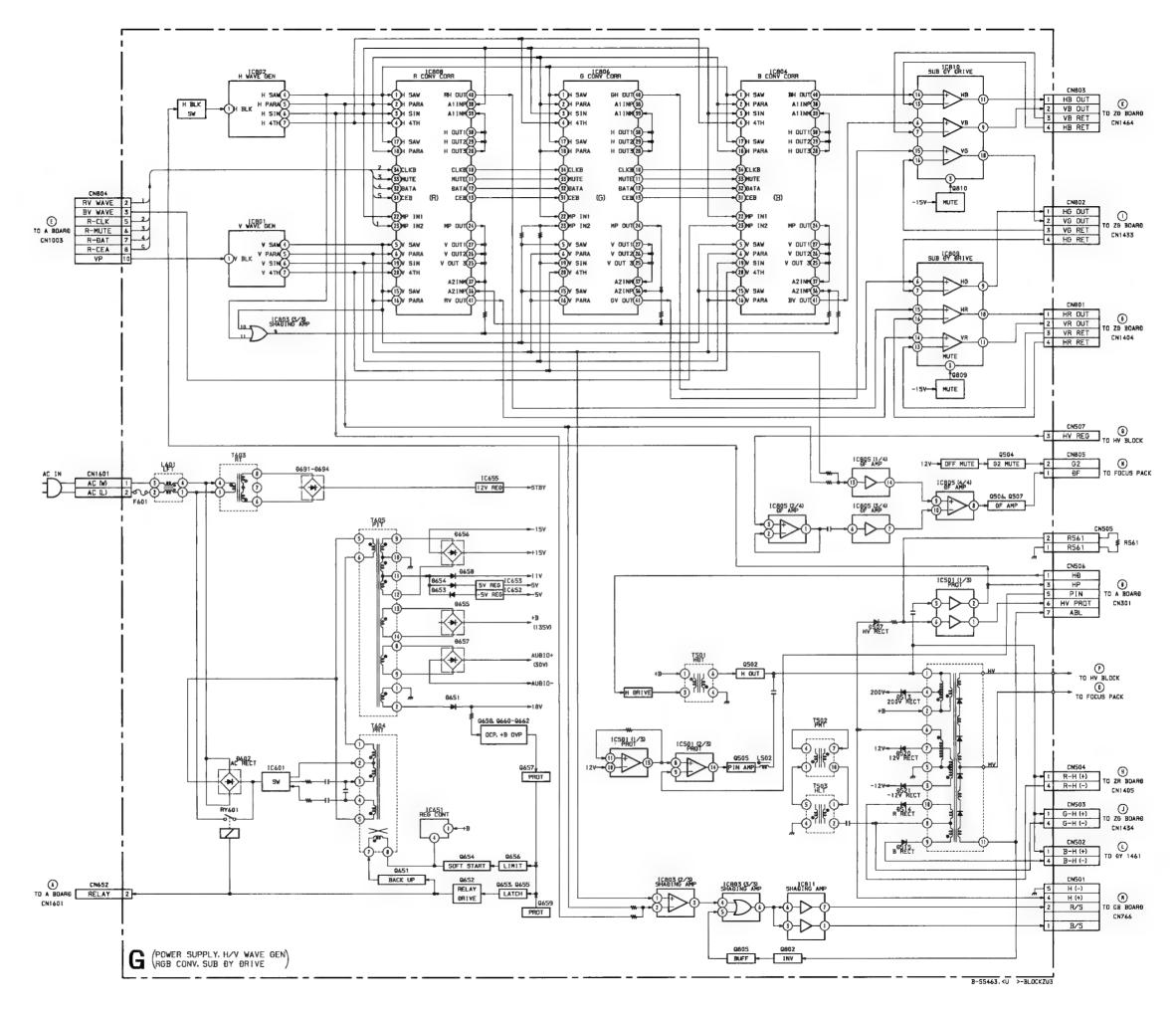
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 Input a color-bar signal. Adjust AGC VR of TU1101 so that snow, noise, and cross-modulation disapper from the picture. Verify picture quality on each channel. 				
BER DISPLAY ADJUSTMENT (DISP) 1. Receive cross-hatch signal. 2. Set to Service mode. 3. Select "DISP", and adjust so that the blank spaces on the both sides of picture bar become equal. 4. Write the data into memory. MUTING→ENTER				A A=B B
SUB-CONTRAST ADJUSTMENT (SCON) 1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : minimum BRIGHTNESS: minimum RON1 GON0 BON0 3. Set to service mode. 4. Connect an oscilloscope between ⑤ pin of CN004 (A Board) and ground. 5. Select "SCON" and adjust so that the wave from level is 1.50±0.1Vp-p. 6. Write the data into memory MUTING → ENTER				1.50±0.1Vp-p

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 P IN P POSITION ADJUSTMENT (PIPH, PIPV) Receive monoscope pattern signal. Set to P IN P mode, and to Service mode. Check the SUB PICTURE position. Select "PIPH" and "PIPV" and adjust H/V position to the specified level. Write the data into memory MUTING → ENTER 				H H: 7.00 ± 0.25sq V: 5.25 ± 0.25sq
P IN P SUB CONTRAST ADJUSTMENT (PCON) 1. Receive color-bar signal. 2. PICTURE : maximum COLOR : minimum BRIGHTNESS: minimum 3. Set to Service mode. 4. Connect an oscilloscope between ⑨ pin CN303 (A Board) and ground. 5. Select "P CON" and adjust so that waveform level is 1.4±∞ Vp-p. 6. Write the data into memory. MUTING → ENTER				1.4±8% 1.4±8%

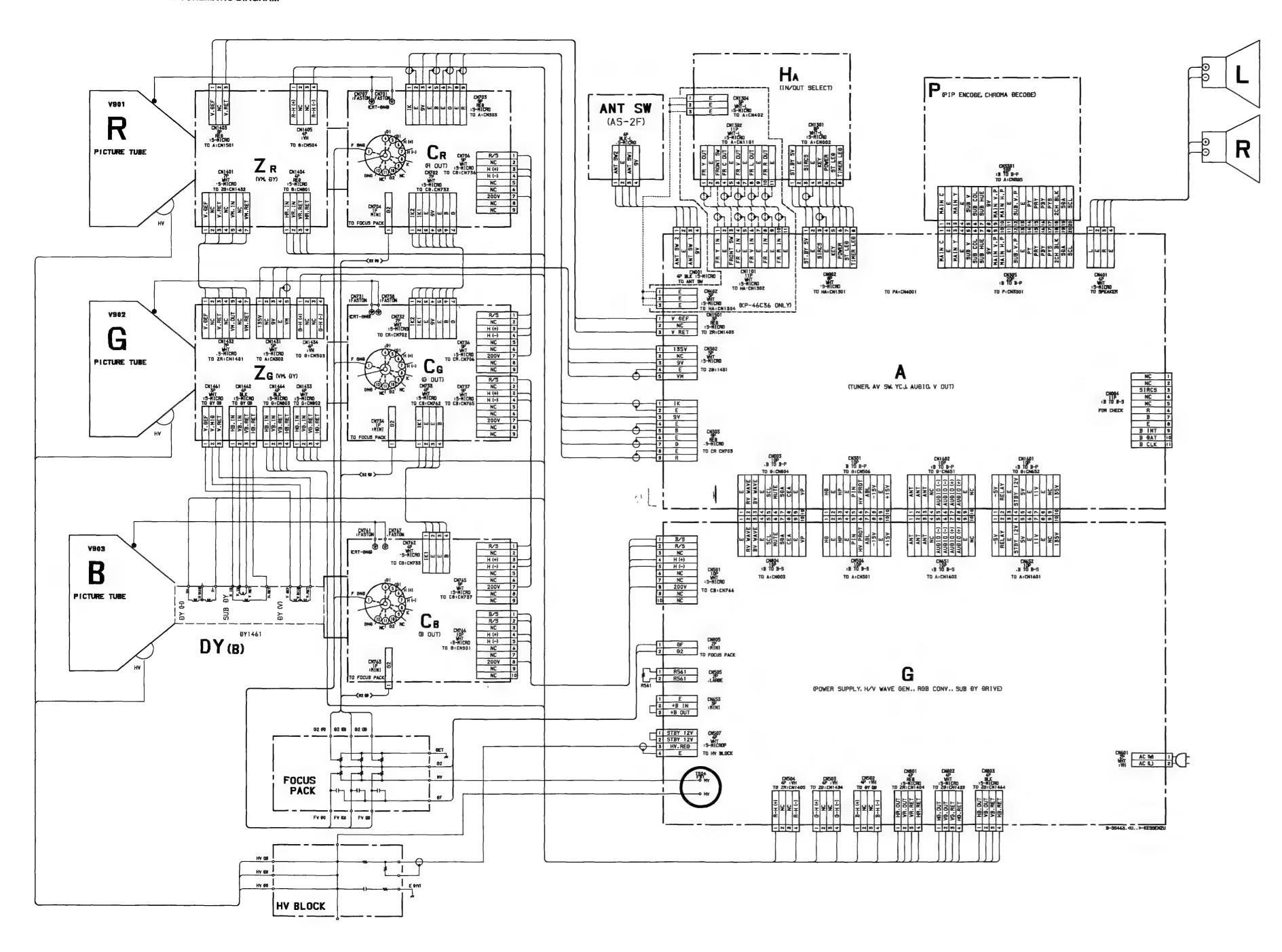
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
PIN P SUB HUE, SUB COLOR ADJUSTMENT (IHUE, ICOL) 1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : center BRIGHTNESS: center 3. Set to Service mode. 4. Connect an oscilloscope between ⑤ pin of CN303 (A Board) and ground. 5. Select "IHUE" and ICOL, adjust them to have VB1=VB4 and VB2=VB3 in the waveform levels. 6. Raise "ICOL" data 1 steps higher. 7. Write the data into memory. MUTING→ENTER				VB1 VB2 VB3 VB4





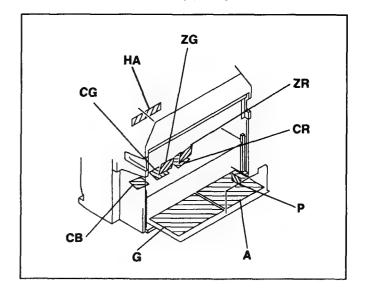


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6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less
- are not indicated except for electrolytics and tantalums.
- All resistors are in ohms. $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows
- Pitch. 5 mm Rating electrical power: 1/4W
- nonflammable resistor
- two: fusible resistor.
- 🛆 : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- \bullet The components identified by $oldsymbol{\mathbb{H}}$ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used. • When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by 🔀 and repeat the adjustment untill the specified value is achieved.
- (Refer to R514, R561 and C514 adjustment on Page 49 to 51)
- When replacing the part in below table, be sure to perform the related

Part replaced (☑)	Adjustment (►)
C514, C515, C516, IC651, T502, T503, T504, DY	HV Regulator (C514)
C507, C513, D501, D504, D507, IC301, IC501, IC651, R502, R514, R516, R517, R539, R560, R561, T502, T503, T504, DY	HV HOLD-DOWN (R514, R561)

- As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.
- · Readings are taken with a color-bar signal input.
- Readings are taken with a 10M $\!\Omega$ digital multimeter. Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances. All voltages are in V
- * : Measurement impossibility. Circled numbers are waveform reference
- ____ B + line
- - B line
- signal path (RF)

Note: The symbol - display is on the component side.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

The symbol III indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note: Les composants identifiés per un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro

> Le symbole - indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

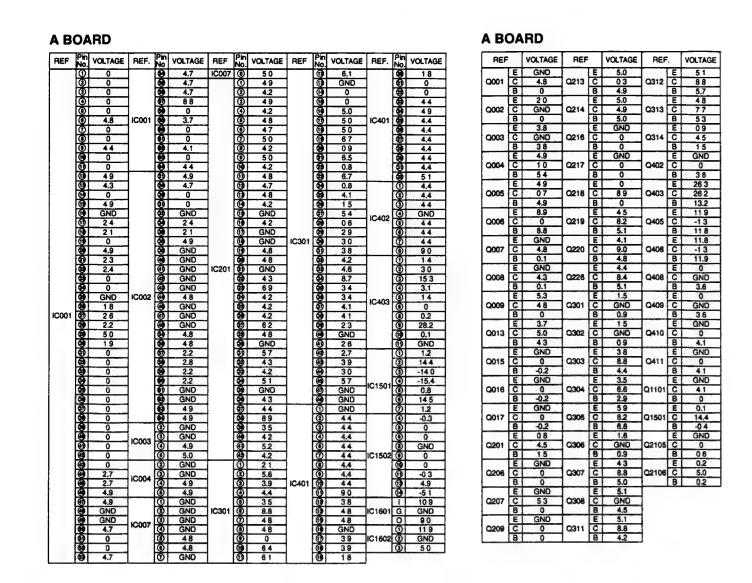
leference in	formation	
ESISTOR	: RN RC : FPRD . FUSE : RW	METAL FILM SOLID NONFRAMMABLE CARBON NONFRAMMABLE FUSIBLE NONFRAMMABLE WIREWOUND
	: RS RB · ※	NONFRAMMABLE METAL OXIDE NONFRAMMABLE CEMENT ADJUSTMENT RESISTOR
OIL APACITOR	LF-8L . TA . PS : PP . PT MPS : MPP	MICRO INDUCTOR TANTALUM STYROL POLYPROPYLENE MYLAR METALIZED POLYESTER METALIZED POLYPROPYLENE BIPOLAR
	: ALT : ALR	HIGH RIPPLE

Terminal name of semiconductors in silk screen printed circuit (*)

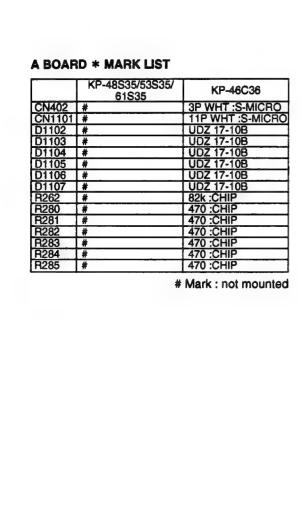
	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector Base Emitter	5 5
2	Transistor		Collector Base Emitter	8 8 8 K
3	Diode	A	Cathode - Anode	Ŷ
•	Diode	T	Cathode Anode (NC)	° Å
⑤	Diode		Cathode Anode (NC)	، ل ه
•	Diode	T	Common Anode Cathode	٠, ١,
7	Diode	_	Common Anode Cathode	L <mark>≯∤≯</mark> J
8	Diode	T	Common Anode Anode	9
9	Diode	_	Common Anode Anode	[▶ • ◀]
10	Diode	T	Common Cathode Cathode	
0	Diode	-	Common Cathode Cathode	, and
13	Transistor (FET)		Drain Source Gate	
(3)	Transistor (FET)	1	Drain Source Gate	*0 *0
10	Transistor (FET)		□ Source □ Drain □ Gate	
13	Transistor	++-	C2 B1 E1 E2 B2 C1	B10 0 E2 0 B
10	Transistor	+	C1 B2 E2 E1 B1 C2	B10 (1) OB
0	Transistor	-	C1 B2 E2 E1 B1 C2	E10 0 E2
130	Transistor		E1 82 E2 E1 81 C2	B10 0E2
19	Transistor		E2 B1 E1 C2 C1(B2)	61(B2)Q QC2 B1Q E2Q QE2
20	Transistor	-	(82) B1 E1 E2 C1 C2	E1(B2) Q QE2 B10 C10 QCE
1	Transistor	_	(B2) E2 E1 B1 C2 C1	B10-C10 0C2
_]	Discrete sen	niconductot		

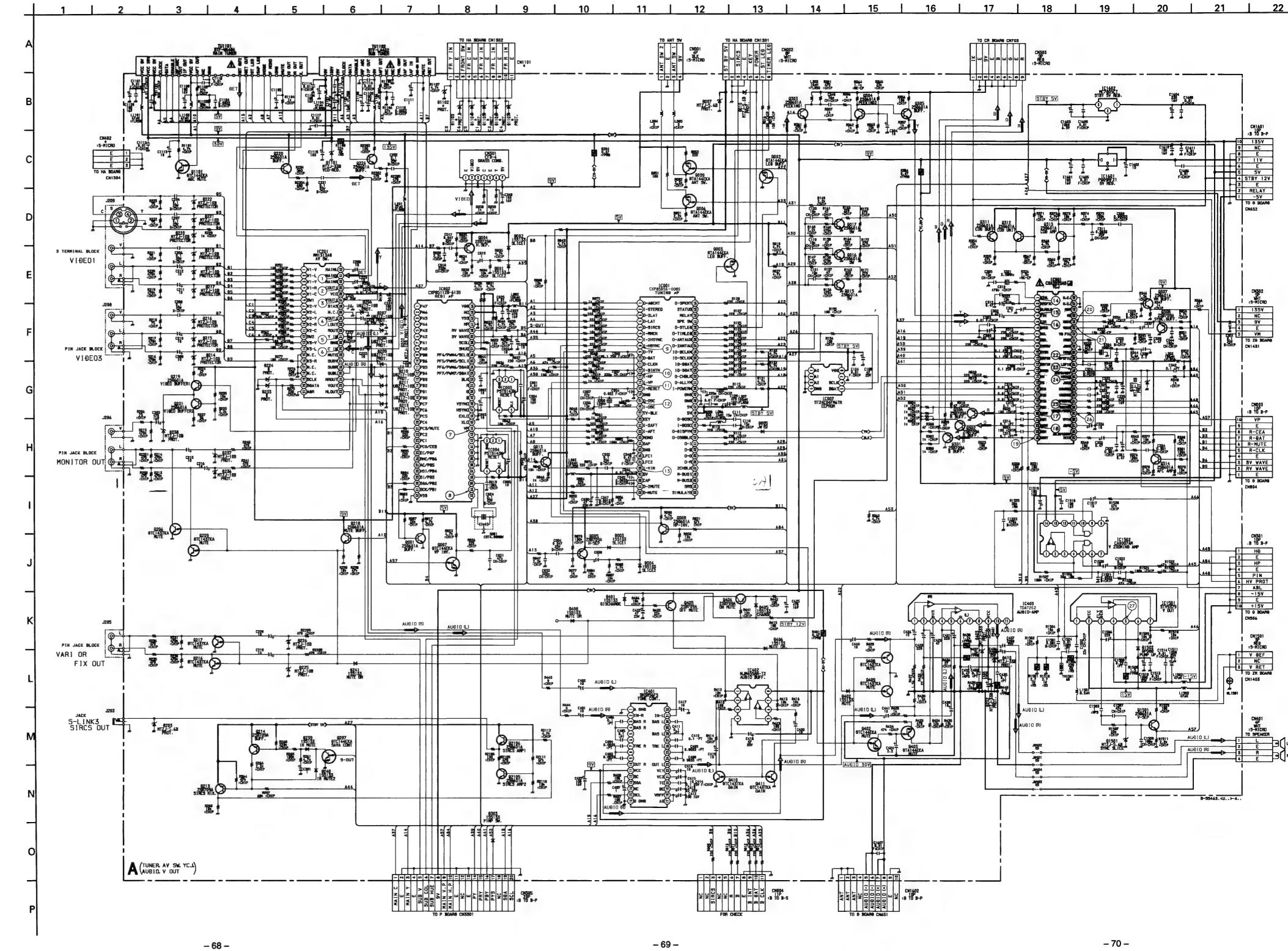
- 63 -

-65-



$\mathfrak D$	2	3
	بالكرب	Therefore
1 4Vp-p (H)	2.2Vp-p (H)	2.2Vp-p (H)
④	(5)	6
	LF-LF-LF-	
2.2Vp-p (H)	2.2Vp-p (H)	2.2Vp-p (H)
${\mathfrak D}$	8	9
	www.	
5 0Vp-p (V)	5.4Vp-p (4MHz)	4.0Vp-p (H)
10	100	122
		www.
5 0Vp-p (H)	5 0Vp-p (V)	3.4Vp-p (12MHz)
13)	13	15
	www	JET-LET-L
2.0Vp-p (H)	0.14Vp-p (3 56MHz)	2.0Vp-p (H)
16)	100	18
2.0Vp-p (H)	2 4Vp-p (H)	2 4Vp-p (H)
19	20	1
Thomas Thomas	The The	ULT-Party-Part
2 4Vp-p (H)	2 0Vp-p (H)	2 0Vp-p (H)
29	23	29
\mathcal{M}		
0 13Vp-p (500kHz)	4 8Vp-p (H)	6 0Vp-p (H)
25	26	20
1 3Vp-p (V)	1 3Vp-p (V)	60Vp-p (V)



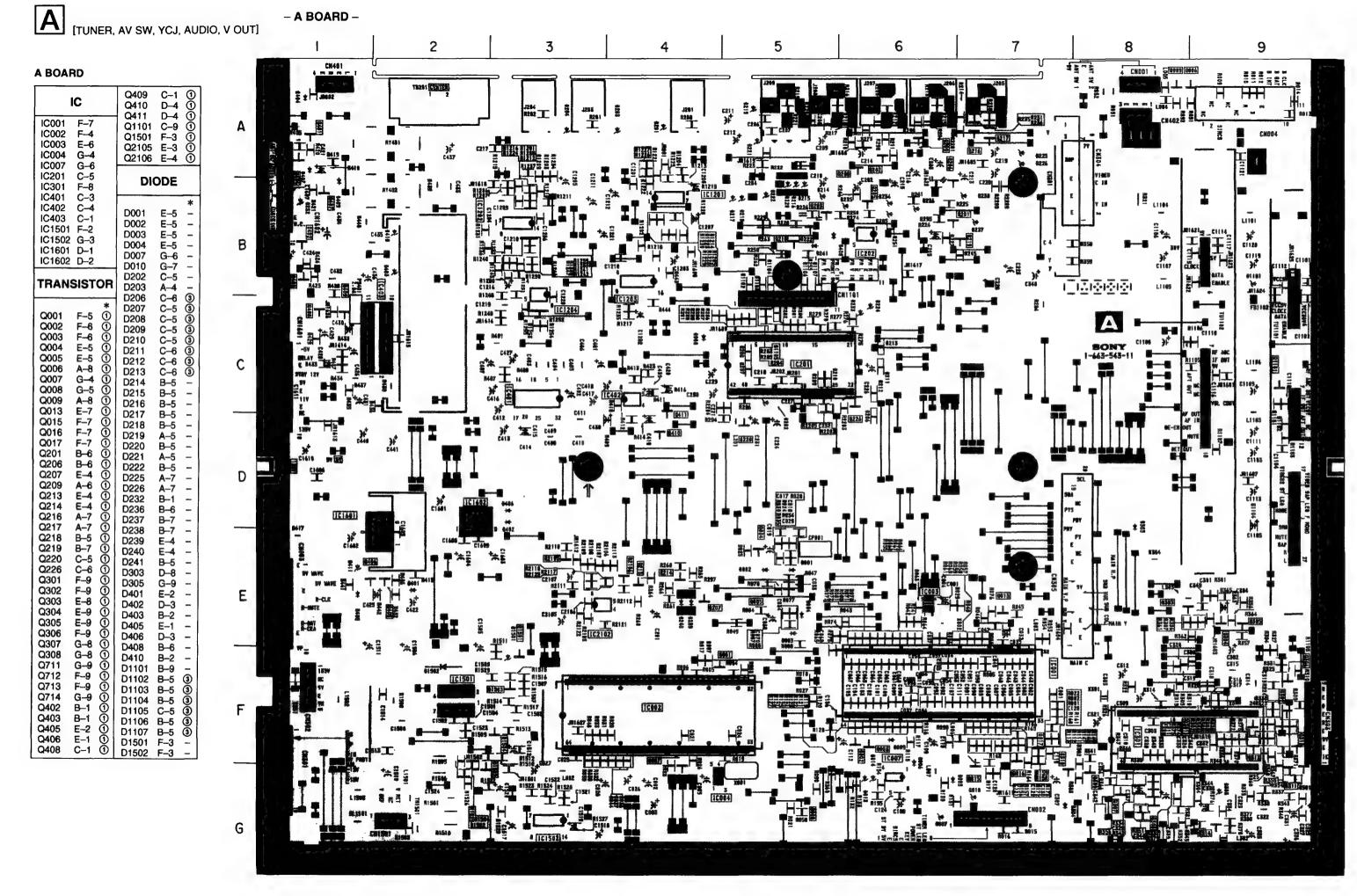


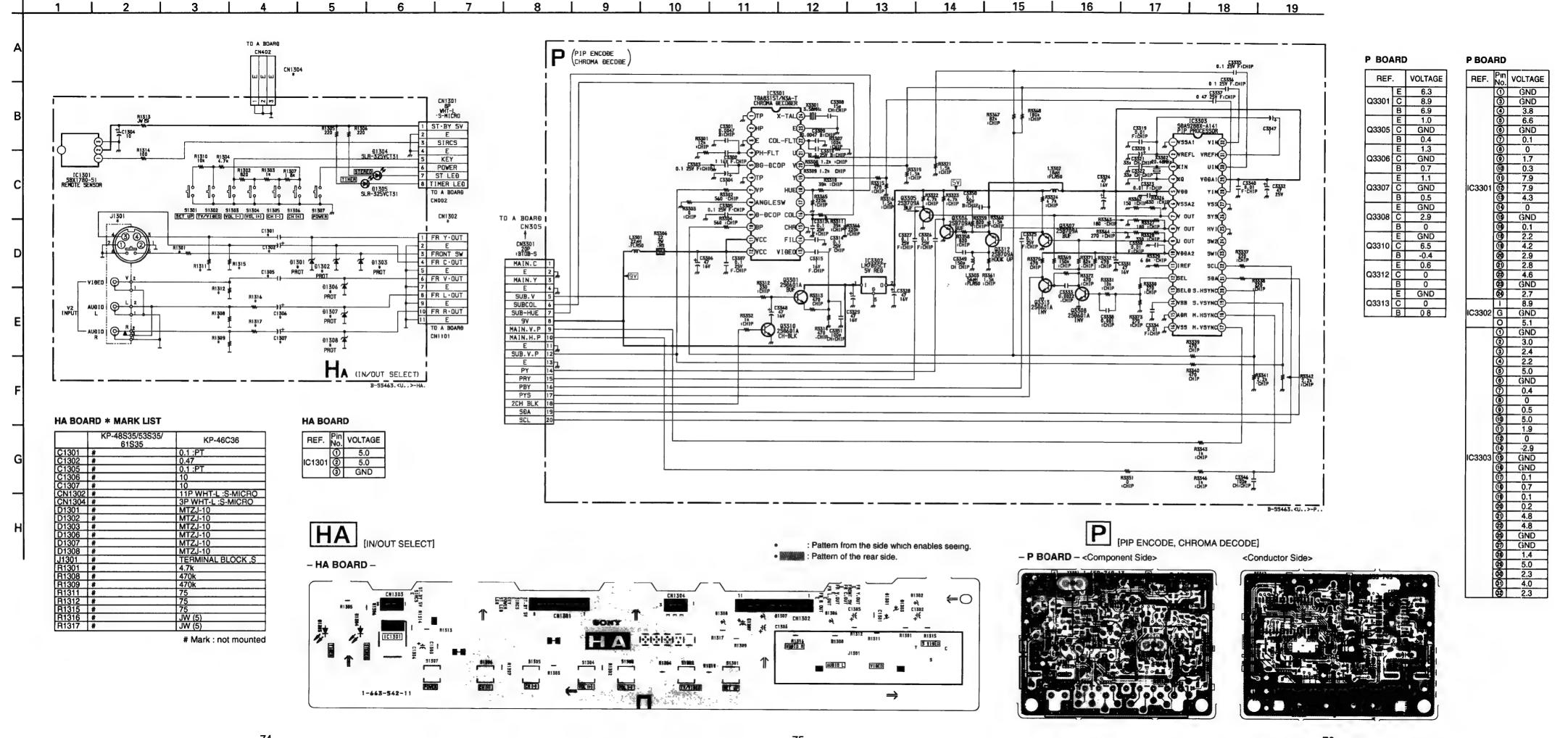
Schematic diagram A board →

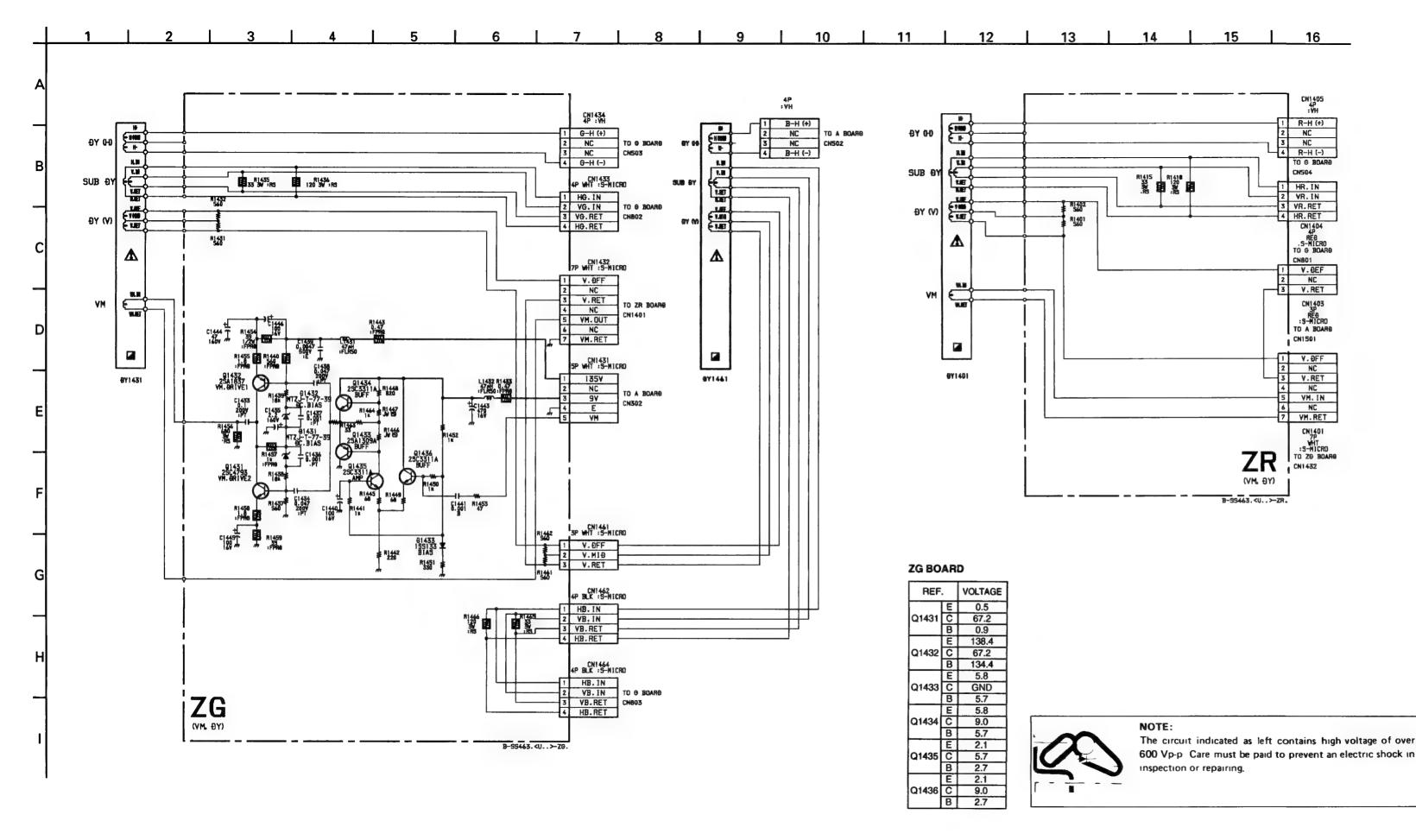
– 67 –

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-70-











R-H (+)

3 NC -4 R-H (-)

CN504

1 HR.IN 2 VR.IN

VR.RET

CN1404 4P REO .S-MICRO TO G BOARO

CN801

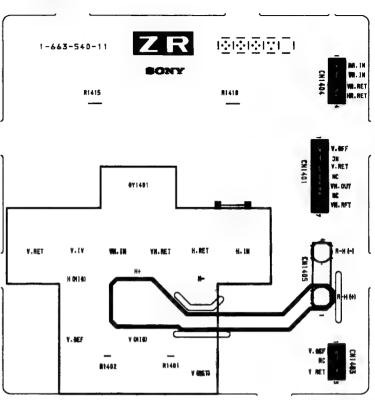
CN1403 3P RED :S-MICRO TO A BOARD

CN1501

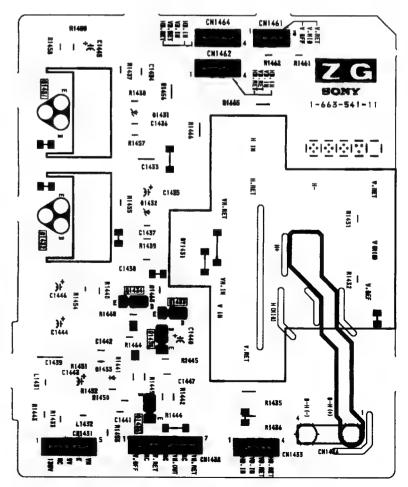
1 V. DFF 2 NC

3 V.RET 4 NC 5 VM. IN

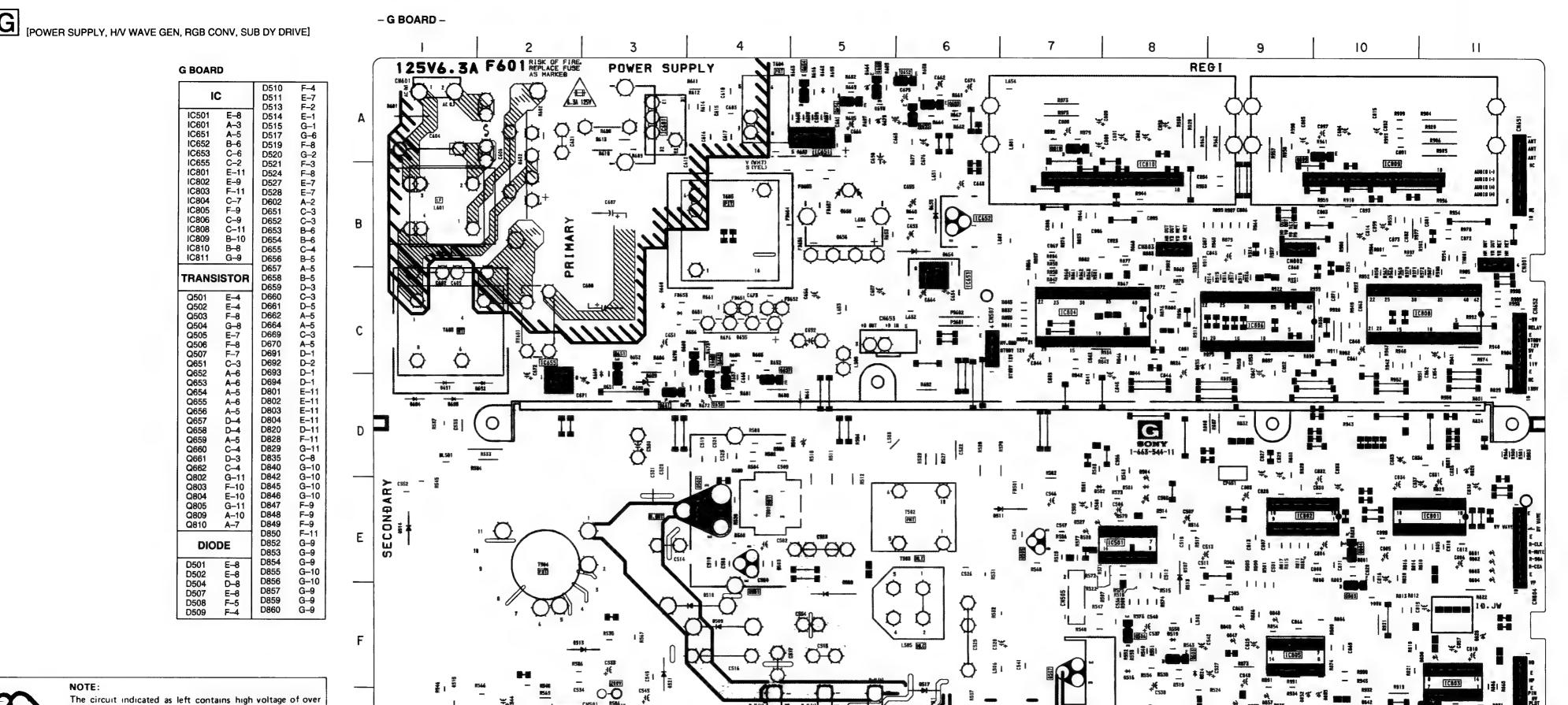
CN1401 7P VHT :S-HICRD TO ZG BOARS



- ZG BOARD -



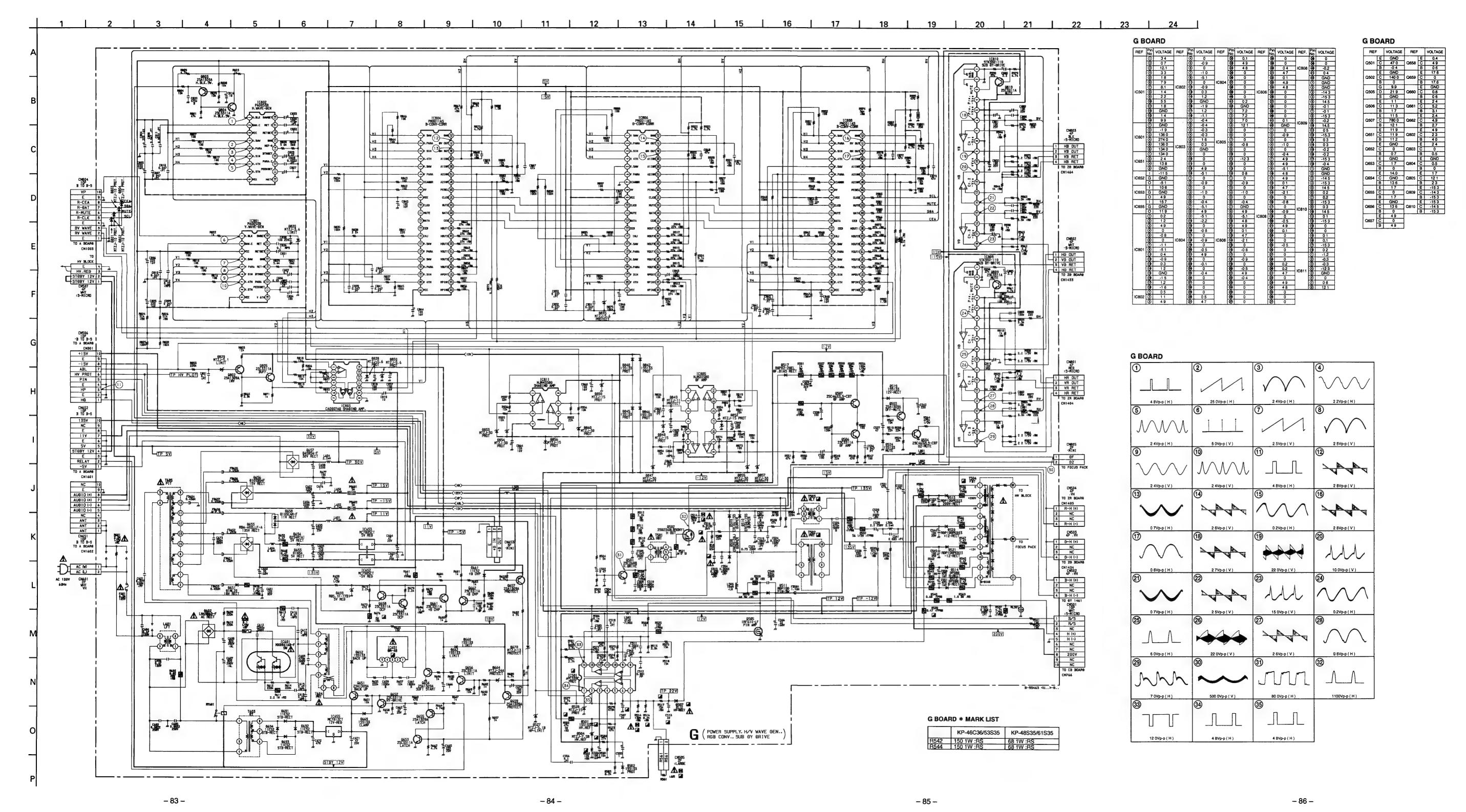
Schematic diagrams





The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

HV.H OUT







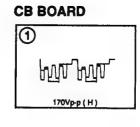
- CB BOARD -

- CG BOARD -

CG

CG [G OUT]

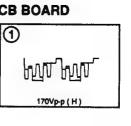


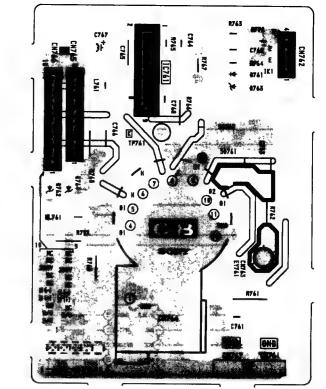


CB BOARD

REF. Pin VOLTAGE

2.5 GND 4.9 196.6 113.0 109.7

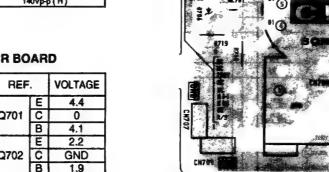


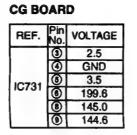


CR BOARD

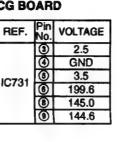
CR BOARD

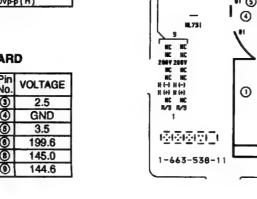
CR BOARD

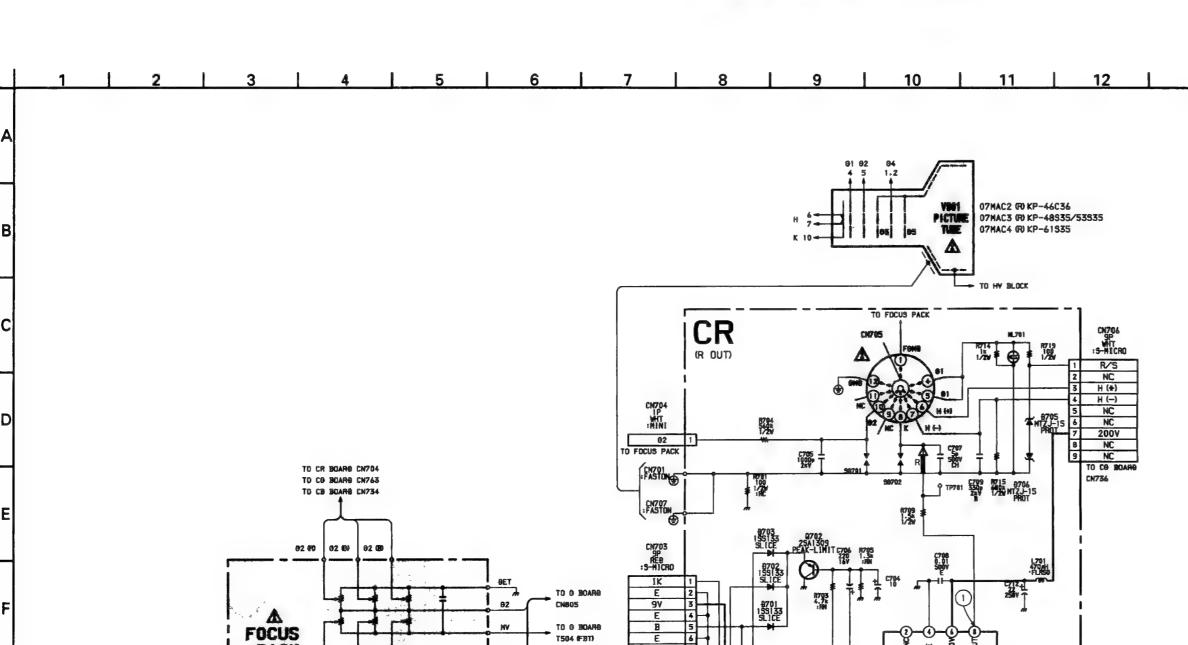


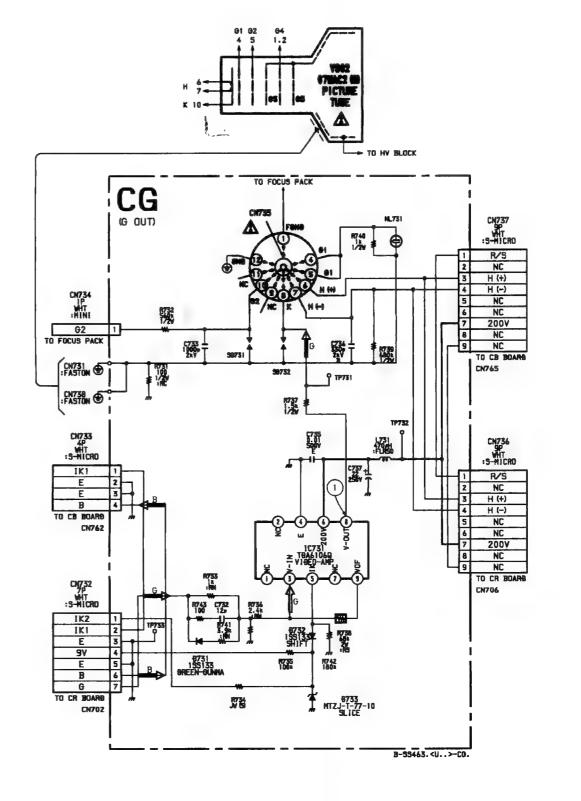


CG BOARD

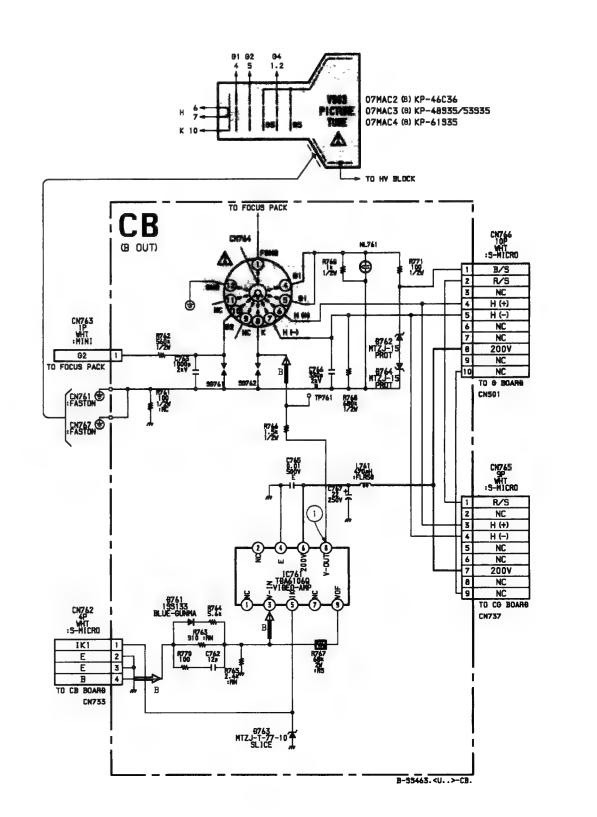








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23

24

Schematic diagrams

CB, CG, CR boards →

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TO CR BOARS CN705 1PIN
TO CS BOARS CN735 1PIN
TO CE BOARS CN744 1PIN

TO PICTURE TUBE

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in

inspection or repairing.

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TO G BOARD T504 (FBT)

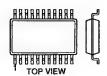
TO G BOARD CN507 3.4PIN

HA Brock

FV (F0 FV (G)

6-5. SEMICONDUCTORS

BH3856FS-E2 SDA9288X-A141

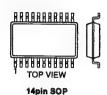


32pin SOP

CA0007AD NJM2058D µPC339C



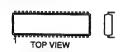
CA0007AM



CXA2025AS



CXP85112B-613S CXP85856-005S



64pin DIP

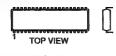
LM7805CT MC7805CT MC7812CT PQ09RF21 TA7805S TA7812S



MC7905CT



MM1313AD PM0011AS



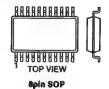
42pin DIP

M5218AP NJM4558D



8pin DIP

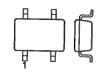
NJM4558M-T2 ST24C04FM6TR μPC4558G2 X24C04S8



PA0053B



PST9143NL



5pin chip

SBX1780-51



STK392-110



STV9379



TDA2009A

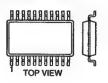


TDA6106Q



9pin Zil

TDA8315T/N3A-T

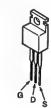


24pin SOP

DTA144EKA-T146 DTC143TKA-T146 DTC144EKA-T146 2SA1162G 2SB709A-QRS-TX 2SD601A-Q 2SD601A-QRS-TX



IRF614 IRF614-LF



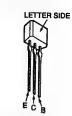
MC780CT 2SA1837 2SC4793



MX0841-AB-F



2SA1175-HFE 2SA1309A-QRSTA 2SC2785-HFE 2SC3311A-QRSTA



2SC2688-LK



2SC4632LS-CB7



2SD2348 (LB SONY-1)



DTZ10B UDZ-TE-17-10B



D1NL20 EL1Z GP08D GP08DPKG23 RGP02-20EL-6394 RGP10GPKG23



D1NS4 HZS9.1NB2 MTZJ-30A MTZJ-33B MTZJ-7.5B MTZJ-T-77-10 MTZJ-T-77-10B MTZJ-T-11 MTZJ-T-15 MTZJ-T-20A MTZJ-T-24A MTZJ-T-3.6 MTZJ-T-30 MTZJ-T-33B MTZJ-T-39 MTZJ-T-5.1 MTZJ-T-5.1B MTZJ-T-5.6 MTZJ-T-5.6B MTZJ-T-7.5B MTZJ-T-9.1B RD10ESB2 RD11ES-B2 RD20ES-B2 RD24ES-B RD3.6ES-B1 RD39ES-B2 RD5.1ES-B1 RD5.1ES-B2 RD5.6ESB2 11ES2



D2S4MF D2SMTA1



D4SBS4-F D10SBS4F LN4SB60 RBA-402LLF-A



D10SC4M



ERC06-15S 1SS133T-77



ERD29-08J



SLR-325VCT31



SECTION 7 **EXPLODED VIEWS**

NOTE:

- · Items with no part number and no description are not stocked because they are seldom required for routine service.
- · The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

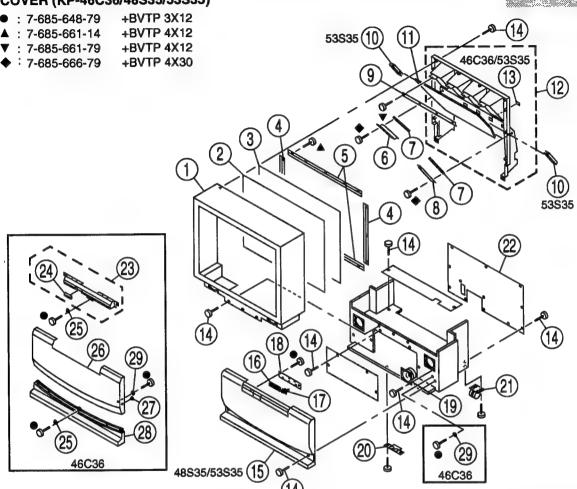
The componants identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque \(\Lambda\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

987753, CONSTRUCTION (CONSTRUCTION)

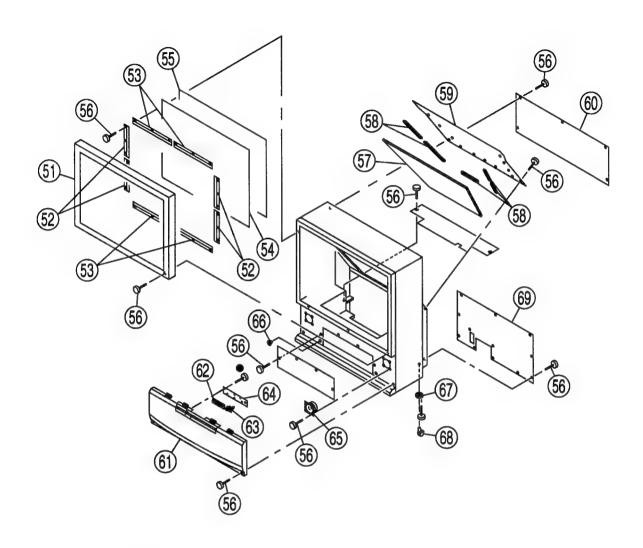
7-1. COVER (KP-46C36/48S35/53S35)



			$\overline{}$				
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4032-998-1	BEZNET ASSY (46C36)				COVER ASSY, MIRROR (46C36)	13 13
	X-4032-999-2	BEZNET ASSY (53S35)			*X-4032-620-1		13
	X-4034-438-1	BEZNET ASSY (48S35)		13	4-048-150-01	CAP, HOLE (46C36/53S35)	
2	4-036-466-11	PLATE (L), DIFFUSION (53S35)		14	4-041-164-11	SCREW (4X20), TAPPING	
	4-037-360-11	PLATE (L), DIFFUSION (46C36)		15	4-057-597-01	GRILLE, SPEAKER (48S35/53S35)	
				16	4-057-603-01	BUTTON, MULTI	
	4-058-454-11	PLATE (L), DIFFUSION (48S35)		17	4-057-604-01	GUIDE, LED / IR	
3	4-036-469-11	PLATE (F), DIFFUSION (53S35)				HA BOARD, COMPLETE (46C36)	
	4-057-324-11	PLATE (F), DUFFUSION (46C36)		10	A-13/2-304-71	In Borne, com EDIE (1000)	
	4-058-455-11	PLATE (F), DIFFUSION (48S35)	25)	,	* A-1372-288-A	HA BOARD, COMPLETE (48S35/53S	535)
4	* 4-048-152-01	HOLDER (S), SCREEN (46C36/48S	33)	19	1-505-378-11	SPEAKER (10CM)	,
	+ 4 040 150 11	HOLDED (C) CCDEEN (52025)		20	4-048-175-01	FOOT, PLASTIC	
	* 4-048-152-11 * 4-048-159-01	HOLDER (S), SCREEN (53S35) HOLDER (L), SCREEN (46C36)		21	4-040-755-01	CASTER (DIA, 30)	
	* 4-048-159-11	HOLDER (L), SCREEN (48S35/53S	35)	22	* 4-057-844-01	BOARD (53), REAR (53S35)	
	* 4-051-790-02	HOLDER, MIRSD (L)	55,	1			
	* 4-049-098-01	CUSHION			* 4-058-556-01	BOARD (48), REAR (48S35)	
,	4-045-050-01	Coomon			* 4-058-648-01	BOARD (46), REAR (46C36)	
8	* 4-051-789-02	HOLDER, MIRSD (R)		23		PANEL ASSY, CONTROL (46C36)	24
	* 4-037-351-01	HOLDER, MIRROR		24	4-057-605-11	DOOR, CONTROL (46C36)	
10	4-033-775-41	PROTECTOR, MIRROR (53S35)		25	4-843-806-00	STRIKE (46C36)	
11	4-048-181-01	MIRROR (53), REFLECTION (53S)	35)	0.5	** 4004 455 1	CRUIE ACOV CREAVER (ACC)	
	4-048-182-01	MIRROR (46) (46C36)		26		GRILLE ASSY, SPEAKER (46C36)	
				27	4-838-438-00	LATCH (46C36) SKIRT, FRONT (46C36)	
	4-058-545-01	MIRROR (48), REFLECTION (485)	35)	28 29	4-057-608-01 4-058-745-01	VELCRO (46C36)	
12	* 4-057-610-01	COVER, MIRROR (48S35)		29	4-030-743-01	VELCRO (40C30)	

7-2. COVER (KP-61S35)

• : 7-685-648-79 +BVTP 3X12



REF. N	O. PART NO.	DESCRIPTION	REMARK	REF. NO		DESCRIPTION	REMARK
51 52 53 54 55	X-4032-762-1 * 4-040-122-01 * 4-040-120-01 4-040-124-11 4-040-123-11	FRAME ASSY, SCREEN HOLDER (S), SCREEN HOLDER (L), SCREEN PLATE (L), DIFFUSION PLATE (F), DIFFUSION		61 62 63 64 65	4-057-602-01 4-057-603-01 4-057-604-01 * A-1372-288-A 1-505-378-11	GRILLE (61), SPEAKER BUTTON, MULTI GUIDE, LED / IR HA BOARD, COMPLETE SPEAKER (10CM)	
56 57 58 59 60	4-041-164-11 4-058-643-01 * 4-049-098-01 * 4-058-642-01 * 4-058-641-01	SCREW (4X20), TAPPING MIRROR, REFLECTION CUSHION BOARD, MIRROR COVER, TOP REAR		66 67 68 69	4-838-438-00 4-030-850-01 4-040-508-02 * 4-058-640-01	LATCH SOCKET, CASTER CASTER BOARD, REAR	

The componants identified by shading and mark ∆ are critical for safety.

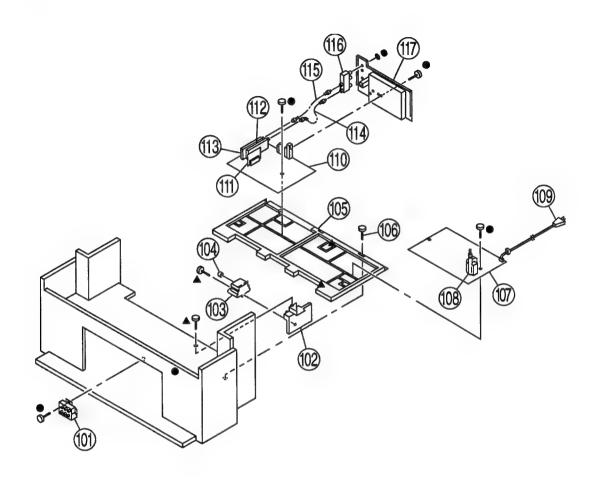
Replace only with part number specified.

Les composants identifies par une trame et une marque A
sont critiques pour la securite. sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

DWST CFTDFFFBESTTWEE

7-3. CHASSIS

+BVTP 3X12 • : 7-685-648-79 **▲** : 7-685-661-14 +BVTP 4X12



REF. N	O. PART NO.	DESCRIPTION	REMARK	REF. NO	D. PART NO.	DESCRIPTION	REMARK
102	* 4-057-596-01 A 8-598-955-20	RESISTOR ASSY (HIGH-VOLTA BRACKET, HV BLOCK ASSY, HIGH-VOLTAGE CAP (Z), RUBBER BRACKET, MAIN	o babasas	111	* A-1298-009-A * A-1195-103-A	A BOARD, COMPLETE A BOARD, COMPLETE P BOARD, COMPLETE TUNER BTF-LA442 TUNER BTF-WA404	(46C36 only) 111
	* A-1316-295-A * A-1316-304-A \$\Delta\$ 1-453-238-11	SCREW (4X20), HEAD TAPPING G BOARD, COMPLETE (46C36/5: G BOARD, COMPLETE (48S35/6: TRANSFORMER ASSY, FLYBAC (N) CORD, POWER(WITH NOISE FIL	3S35) IS35) IK X-4007//X4A4)	114 115 116 117	1-556-945-21 8-598-414-00 4-057-595-01	CABLE, P-P CABLE, P-P ANTENNA SWITCH AS TERMINAL BOARD (48 TERMINAL BOARD (46	3S35/53S35/61S35)

The componants identified by shading and mark ∆ are critical for safety.

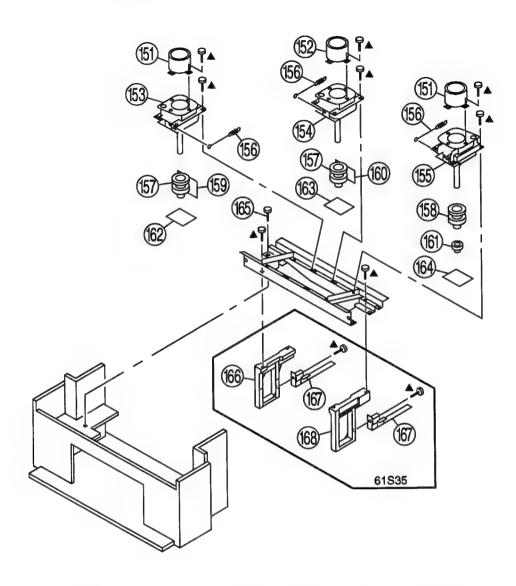
Replace only with part number specified.

•

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-4. PICTURE TUBE

▲ : 7-685-661-14 +BVTP 4X12



REF. NO. PART NO. DESCRIPTION REMARK	REF. NO. PART NO. DESCRIPTION REMARK
151 4-040-131-01 LENS (LINNIT POINT 6) (61S35)	155 A. 733-507-05 PICTURE TUBE 07MAC4(B) (61S35)
4-056-258-01 LENS (DELTA 78) (46C36/48S35/53S35)	156 4-048-142-01 SPRING, TENSION
152 4-040-131-21 LENS (LINNIT POINT 6) (61S35)	157 &1-451-454-11 DEFLECTION YOKE (R) (G)
4-056-258-01 LENS (DELTA 78) (46C36/48S35/53S35)	158 &1-451-455-21 DEFLECTION YOKE (B)
153 <u>A</u> 8-743-496-05 PICTURE TUBE 07MAC2(R) (LONG NECK)	159 * A-1390-682-A ZR BOARD, COMPLETE
(GA) (46C36	160 * A-1390-683-A ZG BOARD, COMPLETE
∆ 8-733-498-05 PICTURE TUBE 07MAC3 (R) (LONG NECK)	161 1-452-909-11 MAGNET ASSY, 4 POLE
(GA) (48535/5353;	162 * A-1331-667-A CR BOARD, COMPLETE
Δ8-733-508-05 PICTURE TUBE 07MAC4(R) (61835) 154 Δ8-733-518-05 PICTURE TUBE 07MAC2 (G) (GC LENS)	163 * A-1331-668-A CG BOARD, COMPLETE 164 * A-1331-669-A CB BOARD, COMPLETE
155 A8-733-495-05 PICTURE TUBE 07MAC2/B) (LONG NECK) (GA) (46C3)	THE PERSON OF TH
Δ 8-733-497-05 PICTURE TUBE 07MAG3 (B) (LONG NECK)	167 4-058-638-01 STAY, CHASSIS (61835)
(GA) (48\$35/53\$3	168 4-057-613-01 BOARD (R), SIDE (61835)

SECTION 8 ELECTRICAL PARTS LIST



NOTE:

Les composants identifies par une trame et une marque Λ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

The components identified by
 in this manual
have been carefully factory-selected for each set
in order to satisfy regulations regarding X-ray
radiation. Should replacement be required,
replace only with the value originally used.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

• CAPACITORS

 $PF: \mu\mu\: F$

 There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

RESISTORS

- · All resistors are in ohms
- F · nonflammahle

		• F : nonfla	ammable						
REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
	* A-1195-103-A	P BOARD, COMPL					<coil></coil>		
		<capacitor></capacitor>			L3301 L3302 L3303	1-410-473-11	INDUCTOR 22UH INDUCTOR 18UH INDUCTOR 56UH		
C3301 C3302 C3303	1-164-346-11	CERAMIC CHIP 0.00 CERAMIC CHIP 1MI CERAMIC CHIP 0.11	F	50V 16V 25V			<transistor></transistor>		
C3304 C3305	1-126-960-11		F 20%	50V 25V	Q3301 Q3305 Q3306	8-729-026-49	TRANSISTOR 2SD601A-0 TRANSISTOR 2SA1037A TRANSISTOR 2SA1037A	K-T146-R	
C3306 C3307 C3308		ELECT 47M CERAMIC CHIP 0.1M CERAMIC CHIP 15P	MF	16V 25V 50V	Q3307 Q3308	8-729-026-49	TRANSISTOR 2SA1037A TRANSISTOR 2SD601A-0	K-T146-R	
C3309 C3310	1-163-017-00	CERAMIC CHIP 0.00 CERAMIC CHIP 0.11	047MF 10%	50V 25V	Q3310 Q3312 Q3313	8-729-026-49	TRANSISTOR 2SD601A-0 TRANSISTOR 2SA1037A TRANSISTOR 2SD601A-0	K-T146 - R	L
C3313 C3314 C3315	1-163-038-91	CERAMIC CHIP 0.11 CERAMIC CHIP 0.11 CERAMIC CHIP 1MI	MF	25V 25V 16V			<resistor></resistor>	210 111	
C3319 C3320	1-126-960-11		F 20%	50V 50V	R3301 R3302		METAL GLAZE 12K METAL GLAZE 560	5% 5%	1/10W 1/10W
C3321 C3322 C3323	1-163-239-11	CERAMIC CHIP 33P CERAMIC CHIP 33P CERAMIC CHIP 0.01	F 5%	50V 50V 50V	R3303 R3304 R3306	1-216-295-91 1-216-043-91	CONDUCTOR, CHIP METAL GLAZE 560 METAL OXIDE 22	5% 5%	1/10W 2W F
C3324 C3325	1-126-967-11 1-163-038-91	ELECT 47M CERAMIC CHIP 0.1M		16V 25V	R3307 R3308	1-216-097-91	METAL GLAZE 100K METAL GLAZE 1.2K	5% 5%	1/10W 1/10W
C3326 C3327 C3328	1-163-038-91 1-126-967-11		MF	25V 25V 16V	R3309 R3310 R3311	1-216-689-11	METAL GLAZE 1.2K METAL GLAZE 39K METAL GLAZE 39K	5% 5% 5%	1/10W 1/10W 1/10W
C3329 C3330		CERAMIC CHIP 0.01	MF	16V 50V	R3312 R3313	1-216-037-00 1-216-041-00	METAL GLAZE 330 METAL GLAZE 470	5% 5%	1/10W 1/10W
C3331 C3332 C3333 C3334		ELECT 47M CERAMIC CHIP 0.00	1F 20% 122MF 5%	16V 25V 50V	R3314 R3315 R3316	1-216-041-00	METAL GLAZE 470 METAL GLAZE 470 METAL GLAZE 1.5K	5% 5% 5%	1/10W 1/10W 1/10W
C3335 C3336	1-163-038-91	CERAMIC CHIP 0.01 CERAMIC CHIP 0.1M CERAMIC CHIP 0.1M	MF	50V 25V 25V	R3319 R3321 R3322	1-216-053-00	METAL GLAZE 1.5K METAL GLAZE 1.5K	5% 5%	1/10W 1/10W
C3337 C3338 C3340	1-164-005-11 1-163-141-00	CERAMIC CHIP 0.47 CERAMIC CHIP 0.00 CERAMIC CHIP 0.01	MF 01MF 5%	25V 50V 50V	R3323 R3324	1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5% 5%	1/10W 1/10W 1/10W
C3346 C3347		CERAMIC CHIP 1001	PF 5%	50V 50V	R3326 R3327 R3328	1-216-031-00	METAL GLAZE 330 METAL GLAZE 180 METAL GLAZE 330	5% 5% 5%	1/10W 1/10W 1/10W
C3348 C3349 C3350	1-126-967-11 1-163-121-00		PF 5%	16V 50V 25V	R3329 R3330	1-216-069-00	METAL GLAZE 6.8K METAL GLAZE 270	5% 5%	1/10W 1/10W
C3351	1-163-251-11	CERAMIC CHIP 1001	PF 5%	50V	R3331 R3332 R3337	1-216-041-00	METAL GLAZE 10K METAL GLAZE 470 METAL GLAZE 220	5% 5% 5%	1/10W 1/10W 1/10W
CN3301		<connector>CONNECTOR, BOAR</connector>	7D TO BOAD	20P	R3338 R3339	1-216-033-00	METAL GLAZE 220 METAL GLAZE 470	5% 5%	1/10W 1/10W
C113301			L IO BOAR	L 201	R3340 R3341	1-216-057-00	METAL GLAZE 470 METAL GLAZE 2.2K	5% 5%	1/10W 1/10W
IC3301	8-759-366-24	<ic> IC TDA8315T/N3A-T</ic>			R3342 R3343 R3346	1-216-049-91	METAL GLAZE 2.2K METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5%	1/10W 1/10W 1/10W
IC3302 IC3303	8-759-231-53 8-759-361-12				R3351	1-216-295-91	CONDUCTOR, CHIP		



REF. NO.	PART NO.	DESCRIPTION]	REMARK	REF. NO.	PART NO.	DESCRIPTION		R	EMARK
R3352		METAL GLAZE		5%	1/10W	C119	1-163-227-11	CERAMIC CHIP	10 PF	0.5PF	50V
R3358 R3359 R3360	1-216-047-91	METAL GLAZE METAL GLAZE METAL GLAZE	820	5% 5% 5%	1/10W 1/10W 1/10W	C120 C121		CERAMIC CHIP CERAMIC CHIP		0.5PF	50V
R3361		METAL GLAZE		5%	1/10W	C124 C201		CERAMIC CHIP		0.5PF 20%	50V 50V 50V
R3362 R3363	1-216-029-00	METAL GLAZE METAL GLAZE	150	5% 5%	1/10W 1/10W	C203	1-126-935-11		470MF	20%	16V
R3364 R3365	1-216-035-00	METAL GLAZE METAL GLAZE	270	5% 5%	1/10W 1/10W	C204 C206		CERAMIC CHIP CERAMIC CHIP		10% 10%	25V 25V
R3366		METAL GLAZE		5%	1/10W	C207 C208	1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.1MF	10% 10%	25V 25V 25V
R3367 R3368	1-216-095-00	METAL GLAZE METAL GLAZE	82K	5% 5%	1/10W 1/10W	C209	1-126-964-11		10MF	20%	50V
R3369 R3370	1-216-101-00	METAL GLAZE METAL GLAZE	150K	5% 5%	1/10W 1/10W	C210 C211	1-126-964-11 1-126-964-11		10MF 10MF	20% 20%	50V 50V
R3371		METAL GLAZE		5%	1/10W	C212 C213	1-126-964-11 1-126-964-11	ELECT	10MF 10MF	20% 20%	50V 50V
R3372 R3373		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	C216	1-126-964-11		10 MF	20%	50V
						C218 C219	1-163-031-11 1-126-964-11	CERAMIC CHIP ELECT	0.01MF 10MF	20%	50V 50V
		<crystal></crystal>				C220 C221	1-126-964-11 1-164-004-11	ELECT CERAMIC CHIP	10MF 0.1MF	20% 10%	50V 25V
X3301 X3302		OSCILLATOR, C VIBRATOR, CRY				C223	1-126-964-11		10MF	20%	50V
						C224 C226	1-104-664-11 1-126-964-11	ELECT	47MF 10MF	20% 20%	25V 50V
*******	********	******	******	*****	******	C227 C228	1-104-664-11		47MF	10% 20%	25V 25V
	* A-1297-946-A	A BOARD, CON		xcept K	P-46C36)	C229 C230	1-126-964-11		10MF	20%	50V
,	* A -1208-000- A	A BOARD, COM		7D 46C2	6 only)	C230 C231 C232	1-126-964-11 1-126-933-11	ELECT	10MF 100MF	20% 20% 10%	50V 16V
	A-1290-009-A	*******	******	71 -40C3	o only)	C302 C303	1-126-959-11	CERAMIC CHIP ELECT CERAMIC CHIP	0.47MF	20%	25V 50V 50V
	4-382-854-11	SCREW (M3X10)	, P, SW (+))		C304	1-105-051-11		10MF	20%	50V
		<capacitor></capacitor>				C305 C308	1-163-231-11	CERAMIC CHIP CERAMIC CHIP	15PF	5% 10%	50V 25V
C001	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C309 C310	1-126-933-11		100MF	20% 5%	16V 50V
C002 C003	1-126-964-11 1-126-964-11	ELECT	10MF 10MF	20% 20%	50V 50V	C311		CERAMIC CHIP		5%	25V
C004 C005	1-126-933-11 1-126-964-11		100MF 10MF	20% 20%	16V 50V	C312 C313	1-126-959-11 1-137-399-11	FILM	0.47MF 0.1MF	20% 5%	50V 50V
C017		CERAMIC CHIP		10%	25V	C314 C315	1-137-399-11 1-137-399-11		0.1MF 0.1MF	5% 5%	50V 50V
C018 C019 C021	1-126-960-11	CERAMIC CHIP ELECT CERAMIC CHIP	1MF	5% 20% 5%	50V 50V 50V	C316 C317		CERAMIC CHIP CERAMIC CHIP		10% 10%	50V 50V
C024		CERAMIC CHIP		10%	25V	C317 C318 C319	1-164-232-11	CERAMIC CHIP CERAMIC CHIP	0.01MF	10% 10% 10%	50V 50V 25V
C025 C026	1-163-031-11 1-126-964-11	CERAMIC CHIP	0.01MF 10MF	20%	50V 50V	C320		CERAMIC CHIP		10%	25V 25V
C027 C028	1-126-935-11 1-126-964-11	ELECT	470MF 10MF	20% 20%	16V 50V	C321 C322	1-126-963-11 1-130-495-00		4.7MF 0.1MF	20% 5%	50V 50V
C032		CERAMIC CHIP		10%	25V	C323 C324	1-137-581-11		0.1MF	5%	100V 50V
C033 C034		CERAMIC CHIP		5% 10%	50V 25V	C325	1-126-959-11		0.47MF	20%	50V
C035 C036	1-104-664-11 1-163-231-11	ELECT CERAMIC CHIP	47MF 15PF	20% 5%	25V 50V	C326 C327	1-126-964-11 1-163-141-00	ELECT CERAMIC CHIP	10MF 0.001MF	20% 5%	50V 50V
C037		CERAMIC CHIP		5%	50V	C329 C330		CERAMIC CHIP CERAMIC CHIP		10% 5%	50V 50V
C038 C045		CERAMIC CHIP		20% 10%	50V 50V	C331	1-126-959-11		0.47MF	20%	50V
C046 C047	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V 50V	C332 C333	1-164-232-11	CERAMIC CHIP CERAMIC CHIP	0.01MF	10% 10%	50V 50V
C048		CERAMIC CHIP			25V	C334 C335	1-126-935-11		470MF	5% 20%	50V 16V
C054 C057 C060	1-163-259-91	CERAMIC CHIP	220PF	5%	50V 50V	C337	1-126-960-11		1MF	20%	50V
C092 C107	1-163-259-91	CERAMIC CHIP CERAMIC CHIP	220PF	5%	25V 50V 50V	C338 C339	1-126-961-11 1-126-959-11 1-137-300-11	ELECT	2.2MF 0.47MF	20% 20%	50V 50V
C107	1-103-031-11		0.01MF 47MF	20%	25V	C342 C344 C348	1-137-399-11 1-163-251-11 1-126-933-11	CERAMIC CHIP	0.1MF 100PF 100MF	5% 5% 20%	50V 50V 16V
C108 C109 C110	1-126-935-11		470MF	20% 20% 5%	16V 50V	C348		CERAMIC CHIP		5%	50V
Cili		CERAMIC CHIP		5%	50V	C351		CERAMIC CHIP		10%	25V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C401 C402 C403	1-126-964-11 1-126-964-11 1-137-367-11	ELECT	10MF 10MF 0.0033MF	20% 20% 5%	50V 50V 50V	C1517 C1518 C1519 C1520	1-126-964-11 1-126-933-11 1-126-933-11 1-126-964-11	ELECT ELECT	10MF 100MF 100MF 10MF	20% 20% 20% 20%	50V 16V 16V 50V
C404 C405 C406 C407 C408	1-137-367-11 1-137-399-11 1-137-399-11 1-126-960-11 1-137-367-11	FILM FILM ELECT	0.0033MF 0.1MF 0.1MF 1MF 0.0033MF	5% 5% 20%	50V 50V 50V 50V 50V	C1521 C1522 C1523 C1524	1-164-161-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.0022MF 0.1MF		50V 25V 50V 100V
C409 C410 C411	1-137-367-11 1-137-399-11 1-137-399-11	FILM FILM FILM	0.0033MF 0.1MF 0.1MF	5% 5% 5%	50V 50V 50V	C1601 C1602 C1603	1-126-933-11 1-126-964-11 1-126-916-11	ELECT ELECT	100MF 10MF 1000MF	20% 20% 20%	16V 50V 6.3V
C412 C413 C414 C415		ELECT CERAMIC CHIP	100MF 22MF 0.1MF 10MF	20% 20% 20%	16V 25V 25V 50V	C1604 C1605 C1606 C1607	1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	20%	16V 50V 50V 50V
C416 C417 C418	1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11	ELECT ELECT	10MF 10MF 47MF	20% 20% 20% 20%	50V 50V 50V 25V	C1608 C1609 C1610 C1611	1-163-031-11 1-126-933-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 100MF	20%	50V 50V 16V 50V
C419 C420 C422 C424	1-126-964-11 1-126-964-11 1-104-664-11 1-126-961-11	ELECT ELECT	10MF 10MF 47MF 2.2MF	20% 20% 20% 20%	50V 50V 25V 50V		1-103-031-11	<filter block<="" td=""><td></td><td></td><td>30 V</td></filter>			30 V
C425 C426	1-126-935-11 1-126-964-11		470MF 10MF	20% 20%	16V 50V	CM301	1-466-162-81	FILTER BLOCK,	COM (CFI	3-4)	
C427 C428 C429	1-126-933-11 1-126-969-11 1-126-967-11	ELECT ELECT	100MF 220MF 47MF	20% 20% 20%	16V 50V 50V	CN001	*1-564-507-11	<connector> PLUG, CONNEC</connector>	TOR 4P		
C430	1-126-964-11 1-126-969-11	ELECT	10MF 220MF	20%	50V	CN002 CN003 CN004	* 1-564-511-11 * 1-774-183-11 1-573-979-21	PLUG, CONNEC CONNECTOR, B CONNECTOR, B	TOR 8P OARD TOI OARD TO	BOAR	D 11P
C432 C433 C434 C435	1-136-173-00 1-137-399-11 1-128-550-11 1-137-399-11	FILM ELECT	0.47MF 0.1MF 2200MF 0.1MF	5% 5% 20% 5%	50V 50V 50V 50V	CN301 CN302 CN303 CN305	*1-564-508-11 *1-564-512-11	CONNECTOR, B PLUG, CONNECTOR, B CONNECTOR, B	TOR 5P TOR 9P		
C436 C437 C440 C441	1-126-943-11 1-126-943-11 1-126-964-11 1-126-964-11	ELECT ELECT	2200MF 2200MF 10MF 10MF	20% 20% 20% 20%	25V 25V 50V 50V	CN401 CN402	*1-564-507-11 *1-564-506-11	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	TOR 4P TOR 3P (46	6 C 36 o	nly)
C1101 C1102 C1103	1-163-031-11 1-126-933-11		0.01MF 100MF	20%	50V 50V 16V	CN1501 CN1601	*1-564-506-11 *1-774-183-11	PLUG, CONNEC CONNECTOR, B CONNECTOR, B	TOR 3P OARD TOI	BOAR	D10P
C1104 C1105 C1106	1-164-161-11 1-126-960-11 1-126-933-11		0.0022MF 1MF 100MF	10% 20% 20%	50V 50V 16V			<diode></diode>			
C1107 C1108 C1109 C1110 C1111	1-104-664-11 1-126-964-11 1-126-933-11 1-164-161-11 1-126-960-11	ELECT ELECT CERAMIC CHIP	47MF 10MF 100MF 0.0022MF 1MF	20% 20% 20% 10% 20%	25V 50V 16V 50V 50V	D001 D002 D003 D004 D007	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T- DIODE 1SS133T- DIODE 1SS133T- DIODE 1SS133T- DIODE RD5.6ES	77 77 77		
C1112 C1113 C1114 C1115 C1116	1-126-964-11 1-163-031-11 1-163-031-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 0.01MF 0.01MF	20%	50V 50V 50V 50V 50V	D010 D202 D203 D206 D207	8-719-110-17 8-719-109-89 8-719-977-28	DIODE RD5.6ESI DIODE RD10ESE DIODE RD5.6ESI DIODE DTZ10B DIODE DTZ10B	32		
C1117 C1118 C1119 C1120 C1501	1-163-031-11 1-126-968-11 1-126-933-11		0.01MF 100MF 100MF	20% 20% 10%	50V 50V 50V 16V 50V	D208 D209 D210 D211 D212	8-719-977-28 8-719-977-28 8-719-977-28	DIODE DTZ10B DIODE DTZ10B DIODE DTZ10B DIODE DTZ10B DIODE DTZ10B			
C1502 C1503 C1506 C1507 C1508	1-107-504-11 1-136-177-00 1-126-969-11	CERAMIC FILM ELECT CERAMIC CHIP	10PF 1MF 220MF	0.5PF 5% 20% 5% 5%		D213 D214 D215 D216 D217	8-719-110-17 8-719-110-17 8-719-110-17	DIODE DTZ10B DIODE RD10ESE DIODE RD10ESE DIODE RD10ESE DIODE RD10ESE	32 32		
C1509 C1510 C1511 C1513 C1514	1-126-942-61 1-126-942-61 1-163-031-11		1000MF 1000MF 0.01MF	5% 20% 20%	50V 25V 25V 50V 50V	D218 D219 D220 D221 D222	8-719-110-17 8-719-110-17 8-719-110-17 8-719-110-17	DIODE RD10ESE DIODE RD10ESE DIODE RD10ESE DIODE RD10ESE DIODE RD10ESE	32 32 32 32		
									-		



Les composants identifies par une trame et une marque \(\Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REI	F. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION E	REMARK
D2 D2	226 232 236 237	8-719-982-26 8-719-110-17	DIODE RD10ESB2 DIODE MTZJ-33B DIODE RD10ESB2 DIODE RD10ESB2		L1104 L1105 L1106 L1501	1-410-470-11 1-410-478-11	INDUCTOR 47UH INDUCTOR 10UH INDUCTOR 47UH INDUCTOR 8.2UH	
D2 D2 D2	238 239 240 241	8-719-991-33 8-719-991-33 8-719-991-33	DIODE RD10ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77		L1502 L1503		INDUCTOR 47UH INDUCTOR 47UH <neon lamp=""></neon>	
	303		DIODE ISS133T-77		NT 1501	1 510 100 00		
D4 D4 D4	305 401 402 403	8-719-991-33 8-719-991-33 8-719-982-26	DIODE RD10ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE MTZJ-33B		NLISUI	1-319-108-99	LAMP, NEON <ic link=""></ic>	
	105		DIODE 188133T-77		PS401	1-532-984-11	LINK, IC (2A/90V)	
D4 D4	406 408 410 1101	8-719-991-33 8-719-982-26	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE MTZJ-33B DIODE MTZJ-33B				<transistor></transistor>	
	1102		DIODE DTZ10B (46C36 only)		Q001 Q002		TRANSISTOR 2SD601A-QRS-TX TRANSISTOR DTA144EKA-T146	
DI DI	1103 1104 1105 1106	8-719-977-28 8-719-977-28	DIODE DTZ10B (46C36 only) DIODE DTZ10B (46C36 only) DIODE DTZ10B (46C36 only) DIODE DTZ10B (46C36 only)		Q003 Q004 Q005	8-729-216-22	TRANSISTOR DTA144EKA-T146 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
	1107		DIODE DTZ10B (46C36 only)		Q006 Q007		TRANSISTOR DTA144EKA-T146 TRANSISTOR DTC144EKA-T146	
	1501 1502		DIODE RD5.6ESB2 DIODE GP08D		Q008 Q009 Q013	8-729-422-27 8-729-027-38	TRANSISTOR 2SD601A-QRS-TX TRANSISTOR DTA144EKA-T146 TRANSISTOR 2SD601A-QRS-TX	
			<ferrite bead=""></ferrite>		Q015		TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX	
FE	31102	1-414-135-11	INDUCTOR CHIP OUH		Q016 Q017 Q201 Q206	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX TRANSISTOR DTC143TKA-T146	
			<ic></ic>		Q207		TRANSISTOR DTC144EKA-T146	
IC IC IC	001 002 003 004	8-752-861-57 8-759-352-91 8-759-352-91	IC CXP85856-008S IC CXP85112B-613S IC PST9143NL IC PST9143NL		Q209 Q213 Q214 Q216	8-729-027-56 8-729-216-22 8-729-216-22	TRANSISTOR DTC143TKA-T146 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR DTC143TKA-T146	
	007		IC X24C04S8		Q217		TRANSISTOR DTC143TKA-T146	
IC IC IC	201 201 - 4 2401 2402 2403	8-752-076-76 8-759-369-39 8-759-100-96	IC MM1313AD IC CXA2025AS IC BH3856FS-E2 IC uPC4558G2 IC TDA7262		Q218 Q219 Q220 Q226	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX	
	1501		IC STV9379		Q301 Q302	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC IC	21502 21601 21602	8-759-251-31 8-759-198-03	IC CA0007AM IC PQ09RF21 IC TA7805S		Q303 Q304 Q305	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX	
			<jack></jack>		Q306 Q307		TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-QRS-TX	
Ј2	203	1-507-667-00	JACK, MIC		Q308 Q311		TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-QRS-TX	
J2	205 206	1-774-750-11	JACK BLOCK, PIN JACK BLOCK, PIN		Q312		TRANSISTOR 2SD601A-QRS-TX	
J2	.08 .09	1-774-749-11	JACK BLOCK, PIN TERMINAL BLOCK, S		Q313 Q314		TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX	
			<coil></coil>		Q402 Q403 Q405	8-729-027-38	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTA144EKA-T146 TRANSISTOR 2SA1162-G	
	002		INDUCTOR 100UH		Q406 Q408		TRANSISTOR 2SA1162-G TRANSISTOR DTC143TKA-T146	
L	003 004	1-216-295-91	INDUCTOR 100UH CONDUCTOR, CHIP		Q409 Q410	8-729-027-56	TRANSISTOR DTC143TKA-T146 TRANSISTOR DTC143TKA-T146 TRANSISTOR DTC143TKA-T146	
	005 006		CONDUCTOR, CHIP INDUCTOR 10UH		Q411		TRANSISTOR DTC143TKA-T146	
L: L: L:	007 201 302 303 1101	1-410-478-11 1-410-482-31 1-410-470-11	INDUCTOR 100UH INDUCTOR 47UH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 47UH		Q1101 Q1501 Q2105 Q2106	8-729-422-27 8-729-422-27	TRANSISTOR DTC144EKA-T146 TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SD601A-QRS-TX	
	1103		INDUCTOR 47UH		4 1 1 1 1			
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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
		<resistor></resistor>			R074 R075		METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/10W
R003		CONDUCTOR, CHIP	5%	1/10W	R076		METAL GLAZE 220	5%	1/10W
R004 R005		METAL GLAZE 220 METAL GLAZE 220	5%	1/10W	R077		METAL GLAZE 1M	5%	1/10W
R006 R007		METAL GLAZE 220 METAL GLAZE 22K	5% 5%	1/10W 1/10W	R078 R080		METAL GLAZE 100K METAL GLAZE 10K	5% 5%	1/10W 1/10W
					R081	1-216-033-00	METAL GLAZE 220	5% 5%	1/10W 1/10W
R008 R009		METAL GLAZE 10K METAL GLAZE 220	5% 5%	1/10W 1/10W	R084	1-210-073-00	METAL GLAZE 10K		
R010	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R085 R086		METAL GLAZE 100K METAL GLAZE 220	. 5% 5%	1/10W 1/10W
R011 R012		METAL GLAZE 220	5%	1/10W	R087	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R013	1-216-033-00	METAL GLAZE 220	5%	1/10W	R088 R090	•	METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W
R014	1-216-033-00	METAL GLAZE 220	5%	1/10W 1/10W	R091	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R015 R016		METAL GLAZE 100 METAL GLAZE 100	5% 5%	1/10W	R092	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R017	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R099 R111		METAL GLAZE 330 METAL GLAZE 220	5% 5%	1/10W 1/10W
R018		METAL GLAZE 4.7K	5%	1/10W	R112		METAL GLAZE 220	5%	1/10W
R019 R020		METAL GLAZE 100K METAL GLAZE 2.2K	5% 5%	1/10W 1/10W	R113	1-216-033-00	METAL GLAZE 220	5%	1/10W
R021	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R115	1-216-033-00	METAL GLAZE 220	5% 5%	1/10W 1/10W
R023	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R117 R118		METAL GLAZE 220 METAL GLAZE 220	5%	1/10W
R024		METAL GLAZE 1M	5% 5%	1/10W 1/10W	R119	1-216-033-00	METAL GLAZE 220	5%	1/10W
R025 R026	1-216-033-00	METAL GLAZE 100K METAL GLAZE 220	5%	1/10W	R120		METAL GLAZE 220	5%	1/10W
R027 R028	1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W	R121 R122		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W
					R123	1-216-033-00	METAL GLAZE 220	5%	1/10W 1/10W
R030 R031		METAL GLAZE 10K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W	R124	1-216-033-00	METAL GLAZE 220	5%	1/10W
R032	1-216-073-00	METAL GLAZE 10K	5%	1/10W 1/10W	R125 R127		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W
R033 R034		METAL GLAZE 4.7K METAL GLAZE 10K	5% 5%	1/10W	R128	1-216-033-00	METAL GLAZE 220	5%	1/10W
R035	1 216 065 00	METAL GLAZE 4.7K	5%	1/10W	R131 R132) METAL GLAZE 4.7K) METAL GLAZE 4.7K		1/10W 1/10W
R036	1-216-033-00	METAL GLAZE 220	5%	1/10W					
R037 R038	1-216-033-00	METAL GLAZE 220 METAL GLAZE 47K	5% 5%	1/10W 1/10W	R133 R147) METAL GLAZE 4.7K) METAL GLAZE 2.2K		1/10W 1/10W
R039		METAL GLAZE 47K	5%	1/10W	R148	1-216-057-00	METAL GLAZE 2.2K METAL GLAZE 2.2K	5%	1/10W 1/10W
R040	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R149 R154		METAL GLAZE 2.2K	5%	1/10W
R041 R042		METAL GLAZE 100 METAL GLAZE 47K	5% 5%	1/10W 1/10W	R155	1-216-025-91	METAL GLAZE 100	5%	1/10W
R043	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R156	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R044	1-216-073-00) METAL GLAZE 10K	5%	1/10W	R157 R158		METAL GLAZE 47 METAL GLAZE 470k	5% 5%	1/10W 1/10W
R045		METAL GLAZE 10K	5% 5%	1/10W 1/10W	R159	1-216-017-91	METAL GLAZE 47	5%	1/10W
R046 R047	1-216-057-00	METAL GLAZE 1K METAL GLAZE 2.2K	5%	1/10W	R160		METAL GLAZE 470k		1/10W
R048 R049	1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 47K	5% 5%	1/10W 1/10W	R161 R163		METAL GLAZE 47 METAL GLAZE 220	5% 5%	1/10W 1/10W
					R164	1-216-033-00	METAL GLAZE 220	5%	1/10W
R050 R051	1-216-073-00 1-247-807-3) METAL GLAZE 10K I CARBON 100	5% 5%	1/10W 1/4W	R165	1-210-033-00	METAL GLAZE 220	5%	1/10W
R052	1-247-815-91	CARBON 220	5% 5%	1/4W 1/10W	R171 R172		METAL GLAZE 270 METAL GLAZE 270	5% 5%	1/10W 1/10W
R053 R054	1-216-049-91	METAL GLAZE 1K METAL GLAZE 220	5%	1/10W	R173	1-216-035-00	METAL GLAZE 270	5%	1/10W
R055	1-216-033-06) METAL GLAZE 220	5%	1/10W	R204 R206	1-249-377-11 1-216-022-00	CARBON 0.47 METAL GLAZE 75	5% 5%	1/4W F 1/10W
R056	1-216-121-9	METAL GLAZE 1M	5%	1/10W) METAL GLAZE 470F	ζ 5%	1/10W
R057 R058		I METAL GLAZE IK I METAL GLAZE IK	5% 5%	1/10W 1/10W	R213 R214) METAL GLAZE 4701) METAL GLAZE 4701	5%	1/10 W
R059	1-216-033-0) METAL GLAZE 220	5%	1/10W	R215 R216) METAL GLAZE 4701) METAL GLAZE 4701		1/10W 1/10W
R060		METAL GLAZE 220	5%	1/10W	R217		METAL GLAZE 4701		1/10W
R061 R063		METAL GLAZE 1K METAL GLAZE 10K	5% 5%	1/10W 1/10W	R218	1-216-022-00	METAL GLAZE 75	5%	1/10W
R064	1-216-049-9	METAL GLAZE 1K	5%	1/10W 1/10W	R219 R220	1-216-113-00	METAL GLAZE 4701 METAL GLAZE 4701		1/10W 1/10W
R065	1-210-049-9	1 METAL GLAZE 1K	5%		R221	1-216-022-00	METAL GLAZE 75	5%	1/10W
R066 R067		1 METAL GLAZE 1K 0 METAL GLAZE 220	5% 5%	1/10W 1/10W	R222	1-216-022-00) METAL GLAZE 75	5%	1/10W
R068	1-216-033-0	0 METAL GLAZE 220	5%	1/10W	R223		METAL GLAZE 75	5%	1/10W
R070 R071	1-216-033-0	0 METAL GLAZE 220 0 METAL GLAZE 220	5% 5%	1/10W 1/10W	R224 R225		I METAL GLAZE 47) METAL GLAZE 2.2K	5% 5%	1/10W 1/10W
					R227 R229	1-216-019-00) METAL GLAZE 56 I METAL GLAZE IK	5% 5%	1/10W 1/10W
R072 R073		0 METAL GLAZE 220 0 METAL GLAZE 220	5% 5%	1/10W 1/10W	RZZY	1-210:047-9	MEINL GLAZE IN	3 70	1/1044
					•				



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		,	REMARK
	**********							4	-	
R230 R231		METAL GLAZE METAL GLAZE			R333 R334		METAL GLAZE METAL GLAZE		0.50% 5%	1/10W 1/10W
R235	1-216-041-00	METAL GLAZE	470 59		D225	1 01 6 000 00	ACTAL OLAGE	000	F.01	1.41.0337
R236 R241		METAL GLAZE METAL GLAZE			R335 R337		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
					R338	1-216-033-00	METAL GLAZE	220	5%	1/10W
R245 R255		METAL GLAZE METAL GLAZE			R339 R340		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R258		METAL GLAZE	47K 59	6 1/10W						
R260 R261		METAL GLAZE METAL GLAZE			R342 R343		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
K201	1-210-003-00	METAL GLAZE	4./K. 37	0 1/10W	R344		METAL GLAZE		5%	1/10W
R262	1-216-095-00	METAL GLAZE	82K 59		R345		METAL GLAZE		5%	1/10W
R263	1-216-095-00	METAL GLAZE	82K 59	(46C36 on 6 1/10W	y) R346	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R264	1-216-089-91	METAL GLAZE	47K 59	6 1/10W	R347		METAL GLAZE		5%	1/10W
R265 R266		METAL GLAZE METAL GLAZE			R348 R349		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
					R350	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R268 R274		METAL GLAZE			R351	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R274 R275		METAL GLAZE METAL GLAZE			R352	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R276	1-216-033-00	METAL GLAZE	220 59	6 1/10W	R353	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R277	1-216-025-91	METAL GLAZE	100 59	6 1/10W	R354		METAL GLAZE		5%	1/10W
R278	1-216-025-91	METAL GLAZE	100 59	6 1/10W	R355 R356		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R279	1-216-025-91	METAL GLAZE	100 59	6 1/10W						
R280	1-216-041-00	METAL GLAZE	470 59	6 1/10W (46C36 on	R357 v) R358		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R281	1-216-041-00	METAL GLAZE	470 59		R359		METAL GLAZE		5%	1/10W
D.000			400	(46C36 on			METAL GLAZE		5%	1/10W
R282	1-216-041-00	METAL GLAZE	470 59	6 1/10W (46C36 on	R361	1-216-041-00	METAL GLAZE	470	5%	1/10W
				(40030 011	R362	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R283	1-216-041-00	METAL GLAZE	470 59	6 1/10W (46C36 on	R363 (v) R364		METAL GLAZE		5% 0.50%	1/10W 1/10W
R284	1-216-041-00	METAL GLAZE	470 59		R365		METAL GLAZE METAL GLAZE		5%	1/10W
D00#	1 21 4 0 4 1 00		450 50	(46C36 on	y) R366	1-216-017-91	METAL GLAZE	47	5%	1/10W
R285	1-216-041-00	METAL GLAZE	470 59	6 1/10W (46C36 on	y) R367	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R286	1-216-025-91	METAL GLAZE	100 59	6 1/10W	R368		METAL GLAZE		5%	1/10W
R287	1-216-025-91	METAL GLAZE	100 59	6 1/10W	R369 R370		METAL GLAZE		5%	1/10W
R288	1-216-025-91	METAL GLAZE	100 59	6 1/10W	R371		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R289	1-216-025-91	METAL GLAZE	100 59							
R290 R291		METAL GLAZE METAL GLAZE			R372 R373		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R294		METAL GLAZE			R374		METAL GLAZE		5%	1/10W
D20#	1 214 072 00	ACT AT OF ACT	107 60	1 1 1 1 1 1 1 1 1	R375		METAL GLAZE		5%	1/10W
R295 R296		METAL GLAZE METAL GLAZE			R376	1-210-09/-91	METAL GLAZE	100K	5%	1/10W
R297		METAL GLAZE			R377	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R299 R301		METAL GLAZE METAL GLAZE			R378 R379		METAL GLAZE METAL GLAZE		5%	1/10W 1/10W
K301	1-210-041-00	METAL GLAZE	470 37	6 1/10W	R380		METAL GLAZE		5% 5%	1/10W
R302		METAL GLAZE			R381	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R303 R304		METAL GLAZE METAL GLAZE			R384	1-249-377-11	CARBON	0.47	5%	1/4W F
R305	1-216-033-00	METAL GLAZE	220 59	6 1/10W	R401	1-249-377-11	CARBON	0.47	5%	1/4W F
R306	1-216-041-00	METAL GLAZE	470 59	6 1/10W	R406		METAL GLAZE		5%	1/10W
R307	1-216-049-91	METAL GLAZE	1K 59	6 1/10W	R407 R408		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R308	1-216-017-91	METAL GLAZE	47 59	6 1/10W						
R309 R310		METAL GLAZE METAL GLAZE			R412 R413		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R314		METAL GLAZE			R414		METAL GLAZE		5%	1/10W
D215	1 21 6 000 00	N. C. L. C.	220 #5		R415		METAL GLAZE		5%	1/10W
R315 R319		METAL GLAZE METAL GLAZE			R416	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R320	1-216-033-00	METAL GLAZE	220 59	6 1/10W	R418	1-216-025-91	METAL GLAZE	100	5%	1/10W
R322 R323		METAL GLAZE			R423		METAL GLAZE		5%	1/10W
NJZJ	1-210-023-91	METAL GLAZE	100 59	6 1/10W	R424 R425		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R324		METAL GLAZE			R427		METAL GLAZE		5%	1/10W
R325 R326		METAL GLAZE METAL GLAZE		6 1/10W 50% 1/10W	R428	1_216 040 01	METAL GLAZE	11/	5%	1/10W
R327		METAL GLAZE			R429		METAL GLAZE		5% 5%	1/10W 1/10W
R328		METAL GLAZE			R430	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R330	1-216-025-01	METAL GLAZE	100 59	6 1/10W	R432 R433		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R331	1-216-025-91	METAL GLAZE	100 59	6 1/10W					3 70	1/10**
R332	1-216-035-00	METAL GLAZE	270 59	6 1/10W	R434	1-216-075-00	METAL GLAZE	12K	5%	1/10 W

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

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• The components identified by

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



specilied.	1 3/19/20/00/20 1: 5 :	place politi	antendinero ap	como.	origina	ally used.						
REF. NO.	PART NO.	DESCRIPTION		REMA	RK	REF. NO.	PART NO.	DESCRIPTION		F	REMARK	
R435 R436	1-216-011-00	METAL GLAZE METAL GLAZE	27 59	% 1/10	W		* A-1316-295-A	G BOARD, CO		CP-46C3	6/53S35)	
R437 R438	1-249-418-11 1-249-418-11		1.2K 59 1.2K 59	% 1/4V	V F		* A-1316-304-A	G BOARD, CO		KP-48S3	5/61S35)	
R439 R440	1-249-389-11 1-249-389-11	CARBON	4.7 59 4.7 59	% 1/4V	V F			PLATE, TRANSI				
R441 R442 R443	1-216-025-91	METAL GLAZE METAL GLAZE CONDUCTOR, C	100 59					SCREW (M3X10 SCREW +PSW 3		,		
R444		CONDUCTOR, C		% 1/10	NI/			<capacitor></capacitor>				
R1101 R1102	1-216-083-00	METAL GLAZE	27K 59	% 1/10	W	C502 C504	1-126-959-11 1-102-116-00		0.47MF 680PF	20% 10%	50V 50V	
R1103 R1104		METAL GLAZE METAL GLAZE	1K 59	% 1/10		C505 C506	1-130-471-00 1-126-933-11	MYLAR	0.001MF 100MF	5% 20%	50V 16V	
R1105 R1106		METAL GLAZE METAL GLAZE		% 1/10	W	C507	1-126-965-11	ELECT	22MF	20%	50V	
R1107 R1108	1-215-900-11	METAL GLAZE METAL OXIDE	22K 59		W F	C508 C509	1-102-212-00 1-106-383-00		820PF 0.047MF	10% 10%	500V 200V	
R1501	1-216-354-11	METAL OXIDE	2.7 59	% 1W	F	C510 C511	1-102-002-00 1-130-475-00		680PF 0.0022MF	10% 5%	500V 50V	
R1502 R1504	1-216-073-00	METAL GLAZE METAL GLAZE	10K 59	% 1/10		C512	1-130-471-00		0.001MF	5%	50V	
R1506 R1507		METAL OXIDE METAL GLAZE			W F	C513 HC514	1-126-965-11 ▲	CERAMIC	22MF	20%	50V 2KV	
R1508	1-249-383-11	CARBON	1.5	% 1/4V	V F		▲ 1-136-334-91 ▲ 1-136-084-11		0.033MF 0.0145MF	5% 3%	630V 2KV	
R1509 R1510	1-216-073-00	METAL GLAZE METAL GLAZE	10K 59	% 1/10	W	C518	1-130-495-00		0.1MF	5%	50V	
R1511 R1518		METAL GLAZE METAL OXIDE		% 1W	F	C519 C520	1-106-359-00 1-162-116-00		0.0047MF 680PF	10%	100V 2KV	
R1520		METAL GLAZE				C521 C523	1-162-116-00 1-113-506-11	FILM	680PF 0.75MF	10% 5%	2KV 200V	
R1522 R1523		METAL GLAZE METAL GLAZE		% 1/10	W	C524	1-106-359-00		0.0047MF		100V	
R1524 R1525	1-216-097-91 1-215-456-00	METAL GLAZE METAL	30K 19	% 1/4V	٧	C526 C527	1-102-228-00 1-126-967-11	ELECT	470PF 47MF	10% 20%	500V 50V	
R1526	1-215-456-00		30K 19			C528 C529	1-107-649-11 1-136-541-11	FILM	2.2MF 1.5MF	20% 5%	250V 200V	
R1527 R1528	1-216-089-91	METAL GLAZE METAL GLAZE	47K 59	% 1/10	W	C530	1-110-626-11		330MF	20%	160V	
R1529 R2106	1-216-025-91	METAL GLAZE METAL GLAZE	100 59	% 1/10	W	C531 C532	1-126-971-11 1-126-971-11	ELECT	470MF 470MF	20% 20%	50V 50V	
R2109		METAL GLAZE				C533 C535	1-128-562-11 1-106-387-00	MYLAR	47MF 0.068MF	20% 10%	100V 200V	
R2110 R2111	1-216-089-91	METAL GLAZE METAL GLAZE	47K 59	% 1/10	W	C536	1-137-374-11		0.047MF	5%	50V	
R2112 R2201	1-216-041-00	METAL GLAZE	470 59	% 1/10	W	C537 C538	1-126-968-11 1-126-968-11 1-162-114-00	ELECT	100MF 100MF	20% 20%	50V 50V	
R2202 R2203		METAL GLAZE				C539 C540 C541	1-130-487-00 1-130-489-00	MYLAR	0.0047MF 0.022MF 0.033MF	5% 5%	2KV 50V 50V	
R2204 R2205	1-216-045-00	METAL GLAZE METAL GLAZE	680 59	% 1/10	W	C542	1-126-969-11		220MF	20%	50V	
R2208 R2209	1-216-041-00	METAL GLAZE METAL GLAZE	470 59	% 1/10	W	C544 C545	1-104-665-11 1-104-665-11	ELECT	100MF 100MF	20% 20%	25V 25V	
	1 210 041-00		3			C546 C548	1-107-637-11 1-102-244-00	ELECT	22MF 220PF	20% 10%	160V 500V	
		<thermistor:< td=""><td>></td><td></td><td></td><td>C550</td><td>1-126-935-11</td><td></td><td>470MF</td><td>20%</td><td>16V</td><td></td></thermistor:<>	>			C550	1-126-935-11		470MF	20%	16V	
TH1501	1-800-193-00	THERMISTOR				C551 C554 C555	1-126-935-11 1-136-557-11 1-126-960-11	FILM	470MF 0.0033MF 1MF	20% 5% 20%	16V 630V 50V	
		<tuner></tuner>				C556	1-130-495-00		0.1MF	5%	50V	
		TUNER BTF-WA				C603	1-102-228-00	CERAMIC CERAMIC	0.0022MF 470PF	20% 10%	250V 500V	
ery erry en per per ente de	— Newsons THE MA	The second section of the second			- yes	C604	Д 1-136-311-51 Д 1-113-890-51	FILM	0.47MF 0.0022MF	20%	125V	
		<crystal></crystal>						FILM			125V	
X001 X002	1-578-774-11	VIBRATOR, CENTRE VIBRATOR, CR	YSTAL			C607 C608	1-125-692-11	ELECT(BLOCK) ELECT(BLOCK)	820MF	20% 20%	200V 200V	
X301 X304		OSCILLATOR, COSCILALTOR, CO				C612 C615	1-164-646-11 1-136-173-00	FILM	2200PF 0.47MF	10% 5%	500V 50V	
						C616	1-136-173-00		0.47MF	5%	50V	
*****	******	*******	********	*******	****	C617 C618	1-136-169-00 1-136-169-00	FILM	0.22MF 0.22MF	5% 5%	50V 50V	
						C621	1-129-719-00	rilM	0.027MF	5%	630V	



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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO		DESCRIPTION	res museu		REMARK
C651	1-126-804-11		100MF	20%	35V	C854	1-126-933-11		100MF	20%	16V
C652	1-123-024-21	ELECT	33MF		160V	C857 C858	1-126-933-11 1-104-665-11		100MF 100MF	20% 20%	16V 25V
C653	1-104-652-11		470MF	20%	10V	C860	1-126-933-11		100MF	20%	16V
C654 C655	1-104-652-11 1-126-943-11		470MF 2200MF	20% 20%	10V 25V	C861	1-137-374-11	FILM	0.047MF	5%	50V
C656	1-126-943-11	ELECT	2200MF	20%	25V	C862	1-137-374-11	FILM	0.047MF	5%	50V
C657	1-126-943-11	ELECT	2200MF	20%	25V	C863 C864	1-137-374-11 1-126-933-11		0.047MF 100MF	5% 20%	50V 16V
C658	1-128-550-11		2200MF	20%	50V	C865	1-130-471-00		0.001MF	5%	50V
C659 C660	1-102-074-00 1-126-235-11		0.001MF 100MF	10% 20%	50V 6.3V	C866	1-136-177-00	FILM	1MF	5%	50V
C661	1-102-074-00	CERAMIC	0.001MF	10%	50V	C867	1-101-880-00	CERAMIC	47PF	5%	50V
C662	1-104-664-11	ELECT	47MF	20%	25V	C868 C869	1-101-880-00 1-130-489-00		47PF 0.033MF	5% 5%	50V 50V
C663	1-104-664-11	ELECT	47MF	20%	25V	C871	1-101-880-00		47PF	5%	50V
C664 C665	1-104-664-11 1-104-666-11		47MF 220MF	20% 20%	25V 25V	C872	1-101-880-00	CERAMIC	47PF	5%	50V
C666	1-126-960-11		1MF	20%	50V	C873	1-101-880-00	CERAMIC	47PF	5%	50V
C671	1-104-664-11	ELECT	47MF	20%	25V	C880 C881	1-126-961-11 1-102-973-00		2.2MF 100PF	20% 5%	50V 50V
C672	1-126-971-11		470MF	20%	50V	C882	1-102-973-00		100PF	5%	50V
C673 C675	1-164-644-11 1-104-665-11		330PF 100MF	10% 20%	500V 25V	C883	1-102-973-00	CEPAMIC	100PF	5%	50V
C676	1-126-960-11		1MF	20%	50V	C884	1-104-665-11	ELECT	100MF	20%	25V
C801	1-104-665-11	ELECT	100MF	20%	25V	C885 C886	1-126-961-11 1-102-973-00		2.2MF 100PF	20% 5%	50V 50V
C802	1-104-665-11	ELECT	100MF	20%	25V	C887	1-102-973-00		100PF	5%	50V
C803 C804	1-126-934-11 1-126-934-11		220MF 220MF	20% 20%	16V 16V	C888	1-102-973-00	CEPAMIC	100PF	5%	50V
C805	1-126-934-11		220MF	20%	16V	C889	1-104-665-11	ELECT	100MF	20%	25V
C806	1-126-934-11	ELECT	220MF	20%	16 V	C897	1-104-665-11	ELECT	100MF	20%	25V
C807	1-137-374-11	FILM	0.047MF	5%	50V						
C808 C809	1-137-374-11		0.047MF 0.047MF	5% 5%	50V 50V			<connector:< td=""><td>></td><td></td><td></td></connector:<>	>		
C810	1-137-374-11 1-137-374-11		0.047MF	5%	50V	CN501	*1-564-513-11	PLUG, CONNEC	CTOR 10P		
C811	1-137-366-11	FILM	0.0022MF	5%	50V	CN502 CN503		PIN, CONNECT PIN, CONNECT			
C812	1-136-169-00	FILM	0.22MF	5%	50V	CN504	*1-580-689-11	PIN, CONNECT	OR (PC BC		
C813 C815	1-137-374-11		0.047MF	5%	50V 25V	CN505	* 1-506-371-00	PIN, CONNECT	OR 2P		
C815	1-104-665-11 1-126-964-11		100MF 10MF	20% 20%	50V	CN506	*1-774-182-11	CONNECTOR, I	BOARD TO	BOAR	D10P
C818	1-126-933-11	ELECT	100MF	20%	16V	CN507 CN601		PLUG, CONNECT		D)	
C819	1-126-964-11	ELECT	10MF	20%	50V	CN651		CONNECTOR, I			D10P
C820 C821	1-102-114-00		470PF 0.1MF	10% 5%	50V 50V	CN652	* 1-774-182-11	CONNECTOR, I	BOARD TO	BOAR	D10P
C823	1-130-495-00 1-101-880-00		47PF	5%	50V	CN653		PIN, CONNECT		ARD) 3	P
C825	1-104-665-11	ELECT	100MF	20%	25V	CN801 CN802		PLUG, CONNEC			
C826	1-136-165-00	FILM	0.1MF	5%	50V	CN803	*1-564-507-11	PLUG, CONNEC	CTOR 4P		
C827	1-126-960-11		1MF 0.0022MF	20%	50V 50V	CN804	*1-774-182-11	CONNECTOR, I	BOARD TO	BOAR	D10P
C828 C829	1-137-366-11 1-126-959-11		0.47MF	20%	50V	CN805	*1-691-134-11	PIN, CONNECT	OR (PC BC	ARD) 2	P.
C830	1-130-467-00		470PF	5%	50V						
C831	1-126-960-11		1MF	20%	50V			<diode></diode>			
C832 C833	1-126-960-11 1-126-960-11		1MF 1MF	20% 20%	50V 50V	D501	8-719-991-33	DIODE 1SS1337	Γ- 77		
C834	1-126-968-11	ELECT	100MF	20%	50V	D502	8-719-991-33	DIODE 1SS1337	r-77		
C835	1-126-967-11	ELECT	47MF	20%	50V	D504	8-719-921-63 A 8-719-302-4 3	DIODE MTZJ-7	.5 B		(Charge Nill)
C836	1-136-169-00		0.22MF	5%	50V	D508	8-719-900-26	DIODE ERD29-	081	,	
C837 C838	1-126-963-11 1-104-665-11		4.7MF 100MF	20% 20%	50V 25V	D509	8-719-945-80	DIODE ERC06-	15S		
C839	1-137-374-11	FILM	0.047MF	5%	50V	D510	8-719-945-80	DIODE ERC06-			
C840	1-104-665-11	ELECT	100MF	20%	25V	D511 D513		DIODE EL1Z DIODE EL1Z			
C841	1-137-374-11		0.047MF	5%	50V	D514		DIODE GP08D			
C842 C843	1-137-374-11 1-126-968-11		0.047MF 100MF	5% 20%	50V 50V	D515	8-719-908-03	DIODE GP08D			
C844	1-126-933-11	ELECT	100MF	20%	16V	D517	8-719-018-82	DIODE RGP02-2			
C845	1-126-933-11	ELECT	100MF	20%	16V	D519 D520		DIODE ISS1337 DIODE EL1Z	1-//		
C846	1-126-933-11		100MF	20%	16V	D521		DIODE ELIZ			
C847 C848	1-126-933-11 1-126-933-11		100MF 100MF	20% 20%	16V 16V	D524	8-719-991-33	DIODE 1SS1337	Г-77		
C851	1-137-374-11	FILM	0.047MF	5%	50V	D527		DIODE RD5.1E			
C852	1-137-374-11	LITIMI	0.047MF	5%	50V	D528 D602	A 8-719-052-84	DIODE LN4SB	0 2 70	ullige.	
C853	1-137-374-11	FILM	0.047MF	5%	50V	D651	8-719-510-26	DIODE DINL20)-TA		

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REF. NO.	PART NO.	DESCRIPTION REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D652		DIODE 1SS133T-77	IC803		IC CA0007AD	
D653	8-719-510-02	DIODE D1NS4	IC804		IC PM0011AS	
D654 D655		DIODE D2S4MF DIODE RBA-402LLF-A	IC805	8-759-711-28	IC NJM2058D	
D656	8-719-052-92	DIODE D10SBS4F	IC806 IC808		IC PM0011AS IC PM0011AS	
D657 D658		DIODE DASBS4-F	IC809	8-749-012-97	IC STK392-110	
D659	8-719-118-59	DIODE D10SC4M DIODE RD5.1F-T7B1	IC810		IC STK392-110	
D660 D661		DIODE 1SS133T-77 DIODE 11ES2	IC811	8-759-634-51	IC M5218AP	
D662	8-719-991-33	DIODE 1SS133T-77			<coil></coil>	
D664 D669		DIODE RD24ESB1 DIODE 1SS133T-77	L502	1-410-478-11	INDUCTOR 47UH	
D670	8-719-921-86	DIODE MTZJ-13	L503	1-459-111-00	COIL, DRAM CORE (C	CDI)
D691		DIODE 11ES2	L506 L509	1-412-533-21	INDUCTOR 2.2mH INDUCTOR 47UH	on management and a series of the visit of the
D692 D693		DIODE 11ES2 DIODE 11ES2	L601	N 1-424-248-11	TRANSFORMER, LIN	E FILTER
D694 D801		DIODE 11ES2 DIODE RD10ESB2	L651 L652		INDUCTOR 2.2UH INDUCTOR 2.2UH	
D802		DIODE RD10ESB2	L653	1-414-158-11	INDUCTOR 2.2UH	
D803		DIODE RD10ESB2	L654 L656		INDUCTOR 2.2UH INDUCTOR 6.8UH	
D804 D820		DIODE RD10ESB2 DIODE RD3.6ESB1	L801	1-406-975-21	COIL, CHOKE 47UH	
D828 D829		DIODE RD5.6ESB2 DIODE RD5.1ESB1	L802		COIL, CHOKE 47UH	
	_ ,				ATTOMIC AND	
D835 D840	8-719-991-33	DIODE RD5.6ESB2 DIODE 1SS133T-77			<neon lamp=""></neon>	
D842 D845		DIODE 1SS133T-77 DIODE 1SS133T-77	NL501	1-519-108-99	LAMP, NEON	
D846	8-719-991-33	DIODE 1SS133T-77			<ic link=""></ic>	
D847 D848		DIODE MTZJ-30A DIODE MTZJ-T-77-15	DCZn4	k 1:583-597-21		
D849	8-719-110-22	DIODE RD11ESB2		1-533-597-21		
D850 D852		DIODE RD5.6ESB2 DIODE MTZJ-T-77-15				
D852	8-719-923-86	DIODE MTZJ-T-77-15			<transistor></transistor>	
D852 D853 D854	8-719-923-86 8-719-982-19 8-719-982-19	DIODE MTZJ-T-77-15 DIODE MTZJ-30A DIODE MTZJ-30A	Q501 Q502		TRANSISTOR 2SC268	
D852 D853 D854 D855 D856	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-T-77-15	Q502 Q503	8-729-024-05 8-729-119-76	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117	8(LBSONY-1) 5-HFE
D852 D853 D854 D855 D856 D857	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A	Q502	8-729-024-05 8-729-119-76 8-729-823-81	TRANSISTOR 2SC268 TRANSISTOR 2SD234	8(LBSONY-1) 5-HFE
D852 D853 D854 D855 D856	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-923-86	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-T-77-15	Q502 Q503 Q504 Q505	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR IRF614	8(LBSONY-1) 5-HFE 2LS-CB7
D852 D853 D854 D855 D856 D857	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-923-86	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-T-77-15 DIODE MTZJ-30A	Q502 Q503 Q504 Q505 Q506 Q507	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-823-81	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR IRF614 TRANSISTOR 2SC278 TRANSISTOR 2SC463	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7
D852 D853 D854 D855 D856 D857	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-923-86	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-T-77-15 DIODE MTZJ-30A	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-823-81 8-729-119-76 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR IRF614 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SA117 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-715 DIODE MTZJ-7-715 DIODE MTZJ-30A CFUSE> FUSE, GLASS TUBE 6.3A/125V	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR IRF614 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-715 DIODE MTZJ-30A DIODE MTZJ-7-715 DIODE MTZJ-30A <fuse></fuse>	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-119-76 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR IRF614 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SA117 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A COUNTY OF THE PROPERTY OF THE P	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR IRF614 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-715 DIODE MTZJ-7-715 DIODE MTZJ-30A CFUSE> FUSE FUSE GLASS TUBE 6.3A/125V CLIP, FUSE ; F601 <ferrite bead=""></ferrite>	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-76	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR IRF614 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB501 FB651	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19 1-532-748-11 1-533-223-11	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-7-77-15 DIODE MTZJ-30A COLOR MTZJ-30A CFUSE> FUSE, GLASS TUBE 6.3A/125V CLIP, FUSE; F601 CFERRITE BEAD FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC478 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB651 FB652 FB653	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 4-1-332-748-11 1-533-223-11 1-410-397-21 1-410-396-41 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-7-15 DIODE MTZJ-T-77-15 DIODE MTZJ-T-77-15 DIODE MTZJ-30A CFUSE> FUSE GLASS TUBE 6.3A/125V CLIP, FUSE; F601 <ferrite bead=""> FERRITE BEAD INDUCTOR 1.1UH</ferrite>	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB601 FB651 FB652	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 1-332-748-11 1-533-223-11 1-410-397-21 1-410-396-41 1-410-396-41 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A CFUSE> FUSE GLASS TUBE 6.3A/125V CLIP, FUSE; F601 FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661 Q662	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-119-76 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB601 FB651 FB652 FB653 FB654 FB655	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A COLIP, FUSE; F601 CERRITE BEAD FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661 Q662 Q802	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC478 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC3117	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB651 FB652 FB653 FB654	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 1-332-748-11 1-533-223-11 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A CFUSE> FUSE, GLASS TUBE 6.3A/125V CLIP, FUSE; F601 <ferrite 0.45uh="" 0.45uh<="" 1.1uh="" bead="" ferrite="" inductor="" td=""><td>Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661 Q662 Q802</td><td>8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78</td><td>TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SC178</td><td>8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE</td></ferrite>	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661 Q662 Q802	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SC178	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F801 FB601 FB651 FB652 FB653 FB654 FB655 FB656	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 1-332-748-11 1-533-223-11 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A COLOR MTZJ-7-7-15 DIODE MTZJ-30A CFUSE> FUSE GLASS TUBE 6.3A/125V CLIP, FUSE; F601 CFERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661 Q662 Q802 Q803 Q804 Q805 Q809	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F801 FB601 FB651 FB652 FB653 FB654 FB655 FB656	8-719-923-86 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 1-332-748-11 1-533-223-11 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-7-15 DIODE MTZJ-30A DIODE MTZJ-30A CFUSE> FUSE, GLASS TUBE 6.3A/125V CLIP, FUSE; F601 <ferrite 0.45uh="" 0.45uh<="" 1.1uh="" bead="" ferrite="" inductor="" td=""><td>Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q669 Q660 Q661 Q662 Q802 Q803 Q804 Q805</td><td>8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78</td><td>TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SA117 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC178 TRANSISTOR 2SC278 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278</td><td>8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE</td></ferrite>	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q669 Q660 Q661 Q662 Q802 Q803 Q804 Q805	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SA117 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC178 TRANSISTOR 2SC278 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB651 FB652 FB653 FB655 FB656 FB657	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A COUNTY OF THE PROOF OF	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661 Q662 Q802 Q803 Q804 Q805 Q809	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB601 FB651 FB652 FB653 FB654 FB655 FB656 FB657	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A COLIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIP, FUSE; FOOT CIPC OLASS TUBE 6.3A/125V CIPC OLASS TUBE	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q660 Q661 Q661 Q662 Q802 Q803 Q804 Q805 Q809 Q810	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC178 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB651 FB652 FB653 FB655 FB656 FB657	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-923-86 8-719-982-19 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-7-15 DIODE MTZJ-30A CIODE MTZJ-7-7-15 DIODE MTZJ-30A CFUSE> FUSE GLASS TUBE 6.3A/125V CLIP, FUSE; F601 CFERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH CIC> IC uPC339C TRANSISTOR MX0841AB-F POWER MODULE DM-48 IC MC7905CT	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q660 Q661 Q662 Q802 Q803 Q804 Q805 Q809 Q810	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB651 FB652 FB653 FB654 FB655 FB656 FB657	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-77-15 DIODE MTZJ-30A DIODE MTZJ-30A CFUSE> FUSE, GLASS TUBE 6.3A/125V CLIP, FUSE; F601 <ferrite 0.45uh="" 1.1uh="" <ic="" bead="" ferrite="" inductor=""> IC uPC339C TRANSISTOR MX0841 AB-F POWER MODULE DM-48 IC MC7905CT IC TA7805S</ferrite>	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q660 Q661 Q662 Q802 Q803 Q804 Q805 Q809 Q810	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SA117 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SC278 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE
D852 D853 D854 D855 D856 D857 D859 D860 F601 FB651 FB652 FB653 FB655 FB656 FB657 IC501 IC601 IC601 IC651 IC652 IC653	8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-982-19 8-719-982-19 8-719-982-19 1-410-397-21 1-410-396-41	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-7-7-15 DIODE MTZJ-30A DIODE MTZJ-30A COLIP, FUSE GLASS TUBE 6.3A/125V CLIP, FUSE; F601 CERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH CIC> IC uPC339C TRANSISTOR MX0841 AB-F POWER MODULE DM-48 IC MC7905CT IC TA7805S IC TA7812S IC PA0053B	Q502 Q503 Q504 Q505 Q506 Q507 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q669 Q660 Q661 Q662 Q802 Q803 Q804 Q805 Q809 Q810	8-729-024-05 8-729-119-76 8-729-823-81 8-729-931-45 8-729-823-81 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC268 TRANSISTOR 2SD234 TRANSISTOR 2SD234 TRANSISTOR 2SC463 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC463 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SC278 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SA117 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC178 TRANSISTOR 2SC278	8(LBSONY-1) 5-HFE 2LS-CB7 5-HFE 2LS-CB7 5-HFE



Les composants identifies par une trame et une marque \(\Delta \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark \(\Lambda\) are critical for safety.

Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO	PART NO.	DESCRIPTION	644448800V3		REMARK	
R507	1-249-422-11	CARBON	2.7K	5%	1/4W	R583	1-249-428-11	CARBON	8.2K	5%	1/4W	
R508	1-260-337-11		5.6K	5%	1/2W	R584	1-247-887-00		220K	5%	1/4W 3W	
R509 R510	1-249-437-11 1-215-919-11	METAL OXIDE	47K 2.2K	5% 5%	1/4W 3W F	R585 R586	1-210-490-11	METAL OXIDE CARBON	39K 1	5% 5%	1/2W	F
R511		METAL OXIDE		5%	3W F	R588	1-247-863-91		22K	5%	1/4W	
R512	1-215-919-11	METAL OXIDE	2.2K	5%	3W F	R589	1-247-887-00		220K	5%	1/4W	
R513	1-249-424-11	CARBON	3.9K	5%	1/4W 1/4W	R591		METAL OXIDE		5%	3W	F
R516	1-215-443-00	METAL //	8.2K	1%	1/4W			RESISTOR(SUR WIREWOUND		5%	20W	329
R517	1-215-449-00		15K	1%	1/4W			FUSIBLE	0.1		1/2W	F
R518	1-215-456-00	METAL	30K	1%	1/4W	R609	1-247-887-00	-	220K	5%	1/4W	
R519	1-247-863-91		22K	5%	1/4W	R610	1-247-887-00		220K 2.2	5% 5%	1/4W 1W	F
R522 R523	1-249-428-11 1-249-437-11		8.2K 47K	5% 5%	1/4W 1/4W	R611 R612	1-247-887-00	METAL OXIDE CARBON	2.2 220K	5%	1/4W	r
R524	1-247-863-91		22K	5%	1/4W	R613		METAL OXIDE		5%	1W	F
R525	1-249-405-11		100	5%	1/4W F	R614	1-247-887-00		220K	5%	1/4W	
R528 R530	1-215-910-00	METAL OXIDE	68 47K	5% 5%	3W F 1/4W	R651 R652	1-249-429-11 1-249-425-11		10K 4.7K	5% 5%	1/4W 1/4W	
R531	1-260-326-11		680	5%	1/2W	R653	1-249-377-11		0.47	5%	1/4W	F
R532	1-260-313-51	CARBON	56	5%	1/2W	R655	1-247-887-00	CARBON	220K	5%	1/4W	
R533	1-214-912-00		91K	1%	1/2W	R656	1-260-288-11		0.47	5%	1/2W	
R534 R535	1-215-479-00 1-247-887-00		270K 220K	1% 5%	1/4W 1/4W	R657 R658	1-249-429-11 1-249-417-11		10K 1K	5% 5%	1/4W 1/4W	
R536	1-249-377-11		0.47	5%	1/4W F	R659	1-260-095-11		470	5%	1/2W	
R537	1-260-336-11	CARBON	4.7K	5%	1/2W	R660	1-249-413-11	CARBON	470	5%	1/4W	
R538	1-247-863-91		22K	5%	1/4W	R661	1-249-417-11		1K	5%	1/4W	F
R539 R540	1-249-377-11 1-249-379-11		0.47 0.68	5% 5%	1/4W F 1/4W F	R662 R664	1-249-425-11 1-249-425-11		4.7K 4.7K	5% 5%	1/4W 1/4W	
R541	1-247-807-31		100	5%	1/4W	R665	1-247-807-31		100	5%	1/4W	
R542	1-215-862-11	METAL OXIDE	68	5%	1W F (48S35/61S35)	R667	1-249-417-11	CARBON	1K	5%	1/4W	
R542	1_215_964_00	METAL OXIDE	150	5%	1W F	R668 R669	1-249-377-11 1-249-429-11		0.47 10K	5% 5%	1/4W 1/4W	F
N342	1-215-604-00	METAL OAIDE	150		(46C36/53S35)		1-249-421-11		2.2K	5%	1/4W	
R544	1-215-862-11	METAL OXIDE	68	5%	1W F	R673	1-249-413-11		470 680	5% 1%	1/4W 1/4W	
R544	1-215-864-00	METAL OXIDE	150	5%	(48S35/61S35) 1W F		1-215-417-00					_
R545	1-249-377-11	CAPRON	0.47	5%	(46C36/53S35) 1/4W F	R676	1-216-369-00 1-247-807-31	METAL OXIDE	1 100	5% 5%	2W 1/4W	F
R546	1-249-377-11		0.47	5%	1/4W F	R679	1-249-421-11		2.2K	5%	1/4W	
R547	1-247-807-31	CAPRON	100	5%	1/4W	R680 R681	1-249-417-11 1-249-417-11		1K 1K	5% 5%	1/4W 1/4W	
R548	1-249-413-11		470	5%	1/4W	Koor	1-2-17-11	CARDON	***	570		
R549	1-247-863-91		22K	5%	1/4W	R682	1-249-417-11		1K	5%	1/4W	
R550 R551	1-247-807-31 1-249-437-11		100 47 K	5% 5%	1/4W 1/4W	R683 R684	1-249-417-11 1-249-417-11		1K 1K	5% 5%	1/4W 1/4W	
						R686	1-215-421-00	METAL	1K	1%	1/4W	
R552 R553	1-247-807-31 1-247-881-00		100 120 K	5% 5%	1/4W 1/4W	R687	1-215-441-00	METAL	6.8K	1%	1/4W	
R554	1-249-405-11		100	5%	1/4W F	R688	1-215-481-00	METAL	330K	1%	1/4W	
R556	1-260-123-11		100K	5%	1/2W 3W F	R689	1-249-425-11		4.7K	5%	1/4W 1/4W	
R557	1-210-490-11	METAL OXIDE	39K	5%	2M L	R690 R692	1-249-417-11 1-249-425-11		1K 4.7K	5% 5%	1/4W	
R558		METAL OXIDE		5%	3W F	R693	1-249-429-11	CARBON	10K	5%	1/4W	
R559 R560	1-215-399-00	METAL OXIDE	120	5% 1%	3W F 1/4W	R695	1-247-807-31	CARBON	100	5%	1/4W	
BR561 € 74	vi 3000 a mili	METAL	SIMMINE.	338	1/4W	R696	1-249-417-11	CARBON	1K	5%	1/4W	
R563	1-249-429-11	CARBON	10 K	5%	1/ 4W	R697 R801	1-249-417-11 1-249-437-11		1K 47K	5% 5%	1/4W 1/4W	
R564	1-260-131-11	CARBON	470K	5%	1/2W	R803	1-249-430-11		12K	5%	1/4W	
R565	1-247-807-31		100	5%	1/4W	DOO.4	1 240 420 11	CARRON	101/2	E 01	1 /4357	
R566 R567	1-249-377-11 1-249-377-11		0.47 0.47	5% 5%	1/4W F 1/4W F		1-249-429-11 1-247-807-31		10K 100	5% 5%	1/4W 1/4W	
R568	1-247-903-00	+ · · · · · ·	1M	5%	1/4W	R806	1-249-429-11	CARBON	10K	5%	1/4W	
R569	1-216-202 11	METAL OXIDE	1.8	5%	3W F	R807 R808	1-247-807-31 1-249-429-11		100 10K	5% 5%	1/4W 1/4W	
R570		METAL OXIDE		5%	3W F		1-2-77-427-11	CARDON	IVIN	5 10	11-7 44	
R571	1-249-422-11	CARBON	2.7K	5%	1/4W	R809	1-249-425-11		4.7K	5%	1/4W	
R572 R573	1-247-895-91 1-249-430-11		470K 12K	5% 5%	1/4W 1/4W	R810 R811	1-247-807-31 1-247-807-31		100 100	5% 5%	1/4W 1/4W	
						R812	1-249-429-11	CARBON	10K	5%	1/4W	
R574	1-249-429-11 1-249-422-11		10K 2.7K	5% 5%	1/4W 1/4W	R813	1-249-429-11	CARBON	10K	5%	1/4W	
R577 R579	1-249-422-11		470K	5%	1/4W 1/4W	R814	1-247-807-31	CARBON	100	5%	1/4W	
R580	1-249-434-11	CARBON	27K	5%	1/4W	R815	1-247-807-31	CARBON	100	5%	1/4W	
R581	1-249-429-11	CARBON	10K	5%	1/4W	R816	1-247-807-31 1-247-807-31		100 100	5% 5%	1/4W 1/4W	
						1	- 3 507 51			- 10		



											<u> </u>
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R818	1-249-430-11	CARRON	12K	5%	1/4W	R899	1-247-815-91	CADRON	220	5%	1/4W
Koro	1-249-430-11	CARBON	12K	370	1/4**	R901	1-249-439-11		68K	5%	1/4W
R820	1-249-429-11		10K	5%	1/4W	R902	1-249-438-11	CARBON	56K	5%	1/4W
R821	1-249-428-11		8.2K	5%	1/4W	D002	1 015 401 00	N CEOR A T	177	100	1 /4557
R822 R823	1-249-417-11 1-249-417-11		1K 1K	5% 5%	1/4W 1/4W	R903 R904	1-215-421-00 1-214-800-11		1K 2.2	1%	1/4W
R824	1-215-462-00		51K	1%	1/4W	R905	1-214-800-11		2.2	1% 1%	1/2W 1/2W
1027	1 215 402 00	METAL	3111	1 /0	2,710	R906	1-214-800-11		2.2	1%	1/2W
R825	1-249-441-11	CARBON	100K	5%	1/4W	R907	1-247-815-91		220	5%	1/4W
R826	1-215-462-00		51K	1%	1/4W						
R827	1-249-417-11		1K	5%	1/4W	R908	1-247-815-91		220	5%	1/4W
R828	1-249-426-11		5.6K	5%	1/4W	R909	1-215-421-00		1K	1%	1/4W
R829	1-249-426-11	CARBON	5.6K	5%	1/4W	R910 R911	1-215-421-00 1-215-455-00		1K 27K	1% 1%	1/4W
R830	1-249-414-11	CARBON	560	5%	1/4W	R912	1-215-469-00		100K	1%	1/4W 1/4W
R831	1-249-414-11		560	5%	1/4W	.012	1 213 103 00	DIIID	10011	1 /0	27-7-47
R832	1-249-441-11		100K	5%	1/4W	R913	1-215-455-00	METAL	27K	1%	1/4W
R833	1-249-417-11		1K	5%	1/4W	R914	1-215-455-00		27K	1%	1/4W
R834	1-249-441-11	CARBON	100K	5%	1/4W	R915	1-215-455-00		27K	1%	1/4W
R835	1-249-441-11	CARRON	10012	en	1 (4337	R916	1-215-455-00		27K	1%	1/4W
R836	1-247-807-31		100K 100	5% 5%	1/4W 1/4W	R917	1-215-455-00	METAL	27K	1%	1/4W
R837	1-249-441-11		100K	5%	1/4W	R918	1-215-455-00	METAL.	27K	1%	1/4W
R838	1-249-421-11		2.2K	5%	1/4W	R919	1-249-435-11		33K	5%	1/4W
R841	1-247-815-91	CARBON	220	5%	1/4W	R920	1-214-800-11		2.2	1%	1/2W
						R921	1-249-431-11		15K	5%	1/4W
R842	1-247-807-31		100	5%	1/4W	R922	1-215-445-00	METAL	10K	1%	1/4W
R843 R844	1-247-807-31		100	5%	1/4W	B002	1 240 405 11	CARRON	4.00	e 01	1 /4337
R845	1-247-807-31 1-249-441-11		100 100K	5% 5%	1/4W 1/4W	R923 R924	1-249-425-11 1-215-444-00		4.7K 9.1K	5% 1%	1/4W 1/4W
R846	1-247-807-31		100	5%	1/4W	R925	1-249-425-11		4.7K	5%	1/4W
2.0.0		CIMEDON	100	0 70	2,	R926	1-249-408-11		180	5%	1/4W
R847	1-215-469-00		100K	1%	1/4W	R927	1-215-445-00		10K	1%	1/4W
R850	1-215-469-00		100K	1%	1/4W						
R851	1-247-807-31		100	5%	1/4W	R928	1-215-445-00		10K	1%	1/4W
R852 R853	1-247-807-31 1-247-887-00		100 220K	5% 5%	1/4W 1/4W	R929 R930	1-214-800-11 1-214-800-11		2.2 2.2	1% 1%	1/2W 1/2W
Kojj	1-247-007-00	CARBON	220K	370	1/4 W	R931	1-215-445-00		10K	1%	1/2W 1/4W
R854	1-249-429-11	CARBON	10K	5%	1/4W	R933	1-215-453-00		22K	1%	1/4W
R855	1-247-815-91		220	5%	1/4W		100 00			- 10	2,
R856	1-247-807-31		100	5%	1/4W	R934	1-249-429-11		10K	5%	1/4W
R857	1-247-807-31		100	5%	1/4W	R935	1-249-429-11		10K	5%	1/4W
R858	1-215-455-00	METAL	27K	1%	1/4W	R936	1-249-429-11		10K	5%	1/4W
R859	1-215-455-00	METAI	27K	1%	1/4W	R937 R938	1-249-435-11 1-215-421-00		33K 1K	5% 1%	1/4W 1/4W
R860	1-215-455-00		27K	1%	1/4W	K936	1-213-421-00	METAL	ı ı.	170	1/4 **
R861	1-215-455-00		27K	1%	1/4W	R939	1-259-878-11	CARBON	1.5M	5%	1/4W
R862	1-215-455-00		27K	1%	1/4W	R940	1-249-441-11	CARBON	100K	5%	1/4W
R863	1-215-455-00	METAL	27K	1%	1/4W	R941	1-249-441-11		100K	5%	1/4W
R865	1 240 424 11	CADDON	2 017	E 01.	1 /4337	R942	1-249-421-11		2.2K	5%	1/4W
R867	1-249-424-11 1-215-461-00		3.9K 47K	5% 1%	1/4W 1/4W	R943	1-249-441-11	CARBON	100K	5%	1/4W
R868	1-215-445-00		10K	1%	1/4W	R944	1-215-421-00	METAL.	1K	1%	1/4W
R869	1-249-425-11		4.7K	5%	1/4W	R945	1-249-429-11		10K	5%	1/4W
R871	1-249-417-11	CARBON	1K	5%	1/4W	R946	1-215-421-00		1K	1%	1/4W
DOTO	1 0 10 10 1				4 444-0	R947	1-249-441-11		100K	5%	1/4W
R872 R873	1-249-425-11 1-247-807-31		4.7K 100	5% 5%	1/4W	R948	1-247-815-91	CARBON	220	5%	1/4W
R874	1-247-807-31		10K	5%	1/4W 1/4W	R949	1-247-807-31	CADDON	100	5%	1/4W
R875	1-249-429-11		100K	5%	1/4W	R949	1-247-807-31		100	5%	1/4W 1/4W
R879	1-215-444-00		9.1K	1%	1/4W	R951	1-247-807-31		100	5%	1/4W
						R952	1-247-807-31	CARBON	100	5%	1/4W
R880	1-259-878-11		1.5M	5%	1/4W	R953	1-247-863-91	CARBON	22K	5%	1/4W
R881	1-249-408-11		180	5%	1/4W	2054	1 01 7 100 00				
R882 R883	1-215-445-00 1-215-445-00		10K 10K	1% 1%	1/4W 1/4W	R954	1-215-433-00		3.3K	1%	1/4W
R884	1-215-445-00		10K	1%	1/4W 1/4W	R955 R956	1-215-433-00 1-249-429-11		3.3K 10K	1% 5%	1/4W 1/4W
1007	- 215 775-00	ATAM 4 8 88.7	A VAL	1 /0	41-44	R957	1-214-800-11		2.2	1%	1/4W 1/2W
R885	1-249-441-11	CARBON	100K	5%	1/4W	R958	1-214-800-11		2.2	1%	1/2W
R886	1-249-428-11		8.2K	5%	1/4W						
R887	1-247-807-31		100	5%	1/4W	R959	1-215-433-00		3.3K	1%	1/4W
R888 R889	1-247-807-31		100 56K	5% 5%	1/4W 1/4W	R961	1-249-425-11		4.7K	5%	1/4W
VOOA	1-249-438-11	CARDON	JUK	J 70	1/-+ W	R962 R963	1-214-800-11 1-214-800-11		2.2 2.2	1% 1%	1/2W 1/2W
R890	1-249-441-11	CARBON	100K	5%	1/4W	R964	1-215-433-00		3.3K	1%	1/4W
R891	1-249-429-11		10K	5%	1/4W	• •	0		~	- 10	_, , , , ,
R892	1-215-445-00	METAL	10K	1%	1/4W	R965	1-215-433-00		3.3K	1%	1/4W
R895	1-249-421-11		2.2K	5%	1/4W	R966	1-247-815-91		220	5%	1/4W
R896	1-249-441-11	CAKBON	100K	5%	1/4W	R967	1-215-455-00		27K	1%	1/4W
R897	1-247-807-31	CARRON	100	5%	1/4W	R968 R969	1-215-455-00 1-215-455-00		27K 27K	1% 1%	1/4W 1/4W
R898	1-247-815-91		220	5%	1/4W	44707	4-215- 4 55-00	1114 1 1114	& III	1 10	1/-> ¥4
			-			1					



Les composants identifies par une trame et une marque \(\frac{\Lambda}{\text{sont}} \) critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

G	CR						Ne les remplace piece portant le nu	r que par une	apecilieu.	nly with pa	ırt number
REF. NO.	PART NO.	DESCRIPTION		RI	EMARK ;	REF. NO.	PART NO.	DESCRIPTION			REMARK
R970 R971 R972 R973 R974	1-215-455-00 1-215-455-00 1-215-455-00 1-214-800-11 1-215-463-00	METAL METAL METAL	27K 27K 27K 2.2 56K	1% 1% 1%	1/4W 1/4W 1/4W 1/2W 1/2W	CN701 CN702 CN703	* 1-564-510-11 * 1-564-512-11	CONNECTOR> TAB (CONTACT PLUG, CONNEC PLUG, CONNEC	TOR 7P TOR 9P		
R975 R976 R977 R978 R979	1-214-800-11 1-215-433-00 1-247-815-91 1-215-445-00 1-249-425-11	METAL METAL CARBON METAL	2.2 3.3K 220 10K 4.7K	1% 1% 5% 1%	1/2W 1/4W 1/4W 1/4W 1/4W	CN705	₫ 1-251-182-11	PIN, CONNECTO SOCKET, PICTU PLUG, CONNEC	RE TUBE	PITCH) II	P
R980 R981 R982 R983 R984	1-247-815-91 1-247-815-91 1-247-895-91 1-247-815-91 1-215-444-00	CARBON CARBON CARBON CARBON	220 220 470K 220 9.1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	D701 D702 D703 D704	8-719-991-33 8-719-991-33 8-719-991-33	<pre><diode> DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE MTZJ-T-</diode></pre>	-77 -77 -77		
R985 R987 R988 R989 R990	1-215-445-00 1-249-408-11 1-215-445-00 1-249-425-11 1-249-429-11	CARBON METAL CARBON	10K 180 10K 4.7K 10K	1% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	D705 D706 D708 D709 D710	8-719-923-86 8-719-110-17 8-719-109-89	DIODE MTZJ-T- DIODE RD10ESI DIODE RD5.6ES DIODE 1SS133T	77-15 32 B2		
R991 R992 R993 R994 R995	1-249-429-11 1-259-878-11 1-249-425-11 1-249-425-11 1-249-413-11	CARBON CARBON CARBON	10K 1.5M 4.7K 4.7K 470	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	IC701	8-759-434-39	<ic></ic>			
R996 R997 R998 R999	1-247-815-91 1-215-445-00 1-249-434-11 1-249-434-11	METAL CARBON	220 10K 27K 27K	5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W	L701	1-408-429-00	<coil> INDUCTOR 470</coil>	UH		
		<relay></relay>						<neon lamp=""></neon>			
RY601	Д 1-755-032-11	RELAY			JANG	NL701	1-519-108-99	LAMP, NEON			
		TD A NICEODM	ED.					<transistor:< td=""><td>•</td><td></td><td></td></transistor:<>	•		
T502	Δ1-431-211-11 Λ1-431-212-11	<pre><transform i="" pre="" transforme="" transforme<=""></transform></pre>	IR, HORIZO IR, FERRITI IR, HORIZO	E (PMT) INTAL LI	NEAR	Q701 Q702		TRANSISTOR 2 TRANSISTOR 2			
T504	∆ 1-453-238-11	TRANSFORME	R ASSY, FI	LYBACK	07//X4A4)			<resistor></resistor>	OF BEST	OT A NITT	100
TANA	A 1 24902009-13	TRANSFORME TRANSFORME TRANSFORME	RECONVE	RTER (PR RTER (PI	ir) D	R701 R702 R703 R704 R705	1-219-743-11 1-215-425-00 1-215-437-00 1-260-132-11 1-215-424-00	METAL CARBON	1.5K 4.7K 560K 1.3K	1% 1% 1% 5% 1%	1/4W 1/4W 1/4W 1/2W 1/4W
TH801	1-808-269-11	<thermistor td="" thermistor<=""><td>R></td><td></td><td></td><td>R706 R707 R708 R709 R710</td><td>1-215-437-00 1-249-435-11 1-215-428-00 1-260-101-11 1-215-903-11</td><td>CARBON METAL</td><td>4.7K 33K 2K 1.5K 68K</td><td>1% 5% 1% 5% 5%</td><td>1/4W 1/4W 1/4W 1/2W 2W F</td></thermistor>	R>			R706 R707 R708 R709 R710	1-215-437-00 1-249-435-11 1-215-428-00 1-260-101-11 1-215-903-11	CARBON METAL	4.7K 33K 2K 1.5K 68K	1% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/2W 2W F
*****		**************************************	COMPLETE	<u>.</u>	*******	R711 R712 R713 R714 R715	1-249-435-11 1-247-807-31 1-249-437-11 1-260-099-11 1-260-133-11	CARBON CARBON CARBON	33K 100 47K 1K 680K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/2W 1/2W
		<capacitor:< td=""><td>></td><td></td><td></td><td>R717</td><td>1-249-417-11</td><td></td><td>1K</td><td>5%</td><td>1/4W</td></capacitor:<>	>			R717	1-249-417-11		1K	5%	1/4W
C702 C703 C704	1-104-664-1 1-126-964-1	1 ELECT	12PF 47MF 10MF	5% 20% 20%	50V 25V 50V	R718 R719	1-247-807-31 1-260-087-11	CARBON	100	5% 5%	1/4W 1/2W
C705 C706	1-161-754-0 1-126-934-1	0 CERAMIC 1 ELECT	0.001MF 220MF	10% 20%	2KV 16V	00701	1 510 400 11	<pre><spark gap=""></spark></pre>			
C707 C708 C709	1-102-050-0	1 CERAMIC 0 CERAMIC 0 CERAMIC	5PF 0.01MF 330PF 22MF	0.25PF 10% 20%	500V 500V 2KV 250V	SG701 SG702	1-519-422-11	GAP, SPARK GAP, SPARK			
C712	1-10/-002-1	LECI	421VII.	2010	250 ¥	*****	******	*********	*******	*****	******

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\Lambda\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



specified			ant le numero								
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1331-668-A	CG BOARD, CO				C763 C765 C766 C767	1-161-754-00 1-102-050-00 1-162-115-00 1-107-662-11	CERAMIC CERAMIC	0.001MF 0.01MF 330PF 22MF	10% 10% 20%	2KV 500V 2KV 250V
C722	1 100 040 00		IADE	E01	60V			-COMMECTOR.			
C732 C733 C735 C736 C737	1-102-949-00 1-161-754-00 1-102-050-00 1-162-115-00 1-107-662-11	CERAMIC CERAMIC CERAMIC	12PF 0.001MF 0.01MF 330PF 22MF	5% 10% 10% 20%	50V 2KV 500V 2KV 250V	CN763	*1-564-507-11 *1-508-784-00	TAB (CONTACT PLUG, CONNECTO PIN, CONNECTO SOCKET, PICTU	') TOR 4P OR (5mm P	ГТСН)	1P
C743	1-247-807-31	CARBON	100	5%	1/4W	CN765	*1-564-512-11	PLUG, CONNEC	TOR 9P		CA 1986/February 11198
		<connector></connector>				CN766	* 1-564-513-11	PLUG, CONNEC	TOR 10P		
CN731	1-695-915-11	TAB (CONTACT						<diode></diode>			
CN732 CN733 CN734	* 1-564-510-11 * 1-564-507-11 * 1-508-784-00	PLUG, CONNEC PLUG, CONNEC PIN, CONNECTO SOCKET, PICT	TOR 7P TOR 4P OR (5mm P	ГТСН) І	l P	D761 D762 D763 D764	8-719-923-86 8-719-110-17	DIODE 1SS133T DIODE MTZJ-T- DIODE RD10ESI DIODE MTZJ-T-	77-15 B2		
CN736 CN737	*1-564-512-11 *1-564-512-11	PLUG, CONNEC PLUG, CONNEC	TOR 9P TOR 9P					<ic></ic>			
		<diode></diode>				IC761	8-759-434-39	IC TDA6106Q			
D731 D732		DIODE 1SS133T						<coil></coil>			
D733		DIODE RD10ESI				L761	1-408-429-00	INDUCTOR 470	UH		
		<ic></ic>									
IC731	8-759-434-39	IC TDA6106Q				NL761	1_510_109_00	<neon lamp=""> LAMP, NEON</neon>			
		<coil></coil>				NE/01	1-519-100-99	EAMI, NEON			
L731	1-408-429-00	INDUCTOR 4700	UH					<resistor></resistor>			
		<neon lamp=""></neon>				R761 R762 R763	1-219-743-11 1-260-132-11 1-215-420-00		GE RESIS' 560K 910	ΓΑΝΤ) 5% 1%	100 1/2W 1/4W
NL731	1-519-108-99	LAMP, NEON				R764 R765	1-249-426-11 1-215-430-00	CARBON	5.6K 2.4K	5% 1%	1/4W 1/4W 1/4W
		PEGGEOR				R766	1-260-101-11		1.5K	5%	1/2W
R731	1_219_743_11	<pre><resistor> RESISTOR (SUR)</resistor></pre>	GE RESIS	ΓΔΝΤΊ	100	R767 R768 R769	1-260-133-11 1-260-099-11		680K 1K	5% 5% 5%	2W F 1/2W 1/2W
R732 R733	1-260-132-11 1-215-421-00	CARBON	560K 1K	5% 1%	1/2W 1/4W	R770	1-247-807-31		100	5%	1/4W
R735 R736	1-249-441-11 1-215-430-00		100K 2.4K	5% 1%	1/4W 1/4W	R771	1-260-087-11	CARBON	100	5%	1/2W
R737 R738	1-260-101-11	CARBON METAL OXIDE	1.5K	5% 5%	1/2W 2W F			<spark gap=""></spark>			
R739 R740 R741	1-260-133-11 1-260-099-11 1-215-435-00	CARBON CARBON	680K 1K 3.9K	5% 5% 1%	1/2W 1/2W 1/4W	SG761 SG762		GAP, SPARK GAP, SPARK			
R742	1-247-885-00	CARBON	180K	5%	1/4W	******	******	******	******	*****	****
		<spark gap=""></spark>					* A-1372-288-A	HA BOARD, C			
SG731 SG732		GAP, SPARK GAP, SPARK						*******	*****		ot KP-46C36)
30732	1-319-422-11	OAF, SFARK					* A-1372-304-A	HA BOARD, C			6C36 only)
*****************								G.P			
* A-1331-669-A CB BOARD, COMPLETE ***********************************						C1201	1 127 200 11	<capacitor></capacitor>	0.1345	E01	5037
						C1301 C1302	1-137-399-11 1-126-959-11		0.1MF 0.47MF	5% 20%	50V (46C36 only) 50V
		<capacitor></capacitor>				C1302	1-126-964-11		10MF	-	(46C36 only) 50V
C762	1-102-949-00	CERAMIC	12PF	5%	50V	C1305	1-137-399-11		0.1MF	5%	50V 50V (46C36 only)



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		Ē	REMARK	_
C1306	1-126-964-11	ELECT	10MF	20%	50V (46C36 only)		* A-1390-682-A	ZR BOARD, CO				
C1307	1-126-964-11	ELECT	10MF	20%	50V (46C36 only)			<connector></connector>				
					(40C30 0My)		*1 564 510 11	PLUG, CONNEC				
		<connector></connector>				CN1403	*1-564-506-11	PLUG, CONNEC PLUG, CONNEC	TOR 3P			
		PLUG, CONNEC		14000	omles)			PIN, CONNECTO		ARD) 4F	,	
		PLUG, CONNEC PLUG, CONNEC						-COMMICCTOR-				
		-DIODE				DV1401	1 451 454 11	<connector></connector>				
D1301	9 710 110 17	<diode pd10es<="" td=""><td>22 (46026 6</td><td>valur)</td><td></td><td>D11401</td><td>1-431-434-11</td><td>DEFLECTION Y</td><td>OKE</td><td></td><td></td><td></td></diode>	22 (46026 6	valur)		D11401	1-431-434-11	DEFLECTION Y	OKE			
D1302	8-719-110-17	DIODE RD10ES	B2 (46C36 c	only)				<resistor></resistor>				
D1303 D1304	8-719-053-43	DIODE RD10ESI DIODE SLR-325	VCT31	miy)		R1401	1-249-414-11		560	5%	1/4W	
D1305		DIODE SLR-325		1 \		R1402 R1415		METAL OXIDE		5% 5%	1/4W 3W	F
D1306 D1307	8-719-110-17	DIODE RD10ESI	B2 (46C36 c	only)		R1418	1-216-475-11	METAL OXIDE	120	5%	3W	F
D1308	8-719-110-17	DIODE RD10ES	32 (46C36 C	onty)		*****		******			***	••
		<ic></ic>				*******				***	****	**
IC1301	8-741-780-51	IC SBX1780-51					* A-1390-083-A	ZG BOARD, CO				
		-IACV					4-382-854-11	SCREW (M3X10), P, SW (+)		
J1301	<jack> 1-770-361-11 TERMINAL BLOCK, S (46C36 only)</jack>				าไซโ	<capacitor></capacitor>						
31301	1-770-301-11	TERMINAL BEC	/C.K., 5 (40C	.50 OI	шуу	C1433	1-104-999-11		0.1MF	10%	200V	
		<resistor></resistor>				C1434 C1435	1-106-383-00 1-107-667-11	MYLAR	0.047MF 2.2MF	10%	200V 160V	
R1301	1-249-425-11	CARBON	4.7K	5%	1/4W (46C36 only)	C1436	1-137-364-11 1-137-364-11	FILM	0.001MF 0.001MF	5% 5%	50V 50V	
R1302 R1303	1-249-416-11 1-249-417-11		820 1K	5% 5%	1/4W 1/4W	C1438	1-106-383-00		0.047MF	10%	200V	
R1304 R1305	1-249-425-11 1-247-815-91	CARBON	4.7K 220	5% 5%	1/4W 1/4W	C1439 C1440	1-161-830-00 1-126-933-11	CERAMIC	0.0047MF 100MF		500V 16V	
R1306	1-247-815-91		220	5%	1/4W	C1441 C1443	1-102-074-00 1-126-935-11	CERAMIC	0.001MF 470MF	10% 20%	50V 16V	
R1307 R1308	1-249-420-11 1-247-895-91	CARBON	1.8K 470K	5% 5%	1/4W 1/4W	C1444	1-107-639-11		47MF	20%	160V	
R1309	1-247-895-91		470K	5%	(46C36 only) 1/4W		1-126-933-11 1-126-933-11	ELECT	100MF 100MF	20% 20%	16V 16V	
	1-249-429-11		10K	5%	(46C36 only) 1/4W		1-120-935-11	ELECT	1001/11	2070	101	
R1311	1-247-804-11		75	5%	1/4W			<connector></connector>	•			
R1312			75	5%	(46C36 only) 1/4W			PLUG, CONNEC				
R1314	1-247-804-11			5%	(46C36 only) 1/4W	CN1433	*1-564-507-11	PLUG, CONNECTOR 7P PLUG, CONNECTOR 4P PIN, CONNECTOR (PC BOARD) 4P				
R1315	1-247-807-31 1-247-804-11		100 75	5%	1/4W (46C36 only)	CN1461		PLUG, CONNEC		AKD) 41	Ī	
					(40C30 omy)	CN1462		PLUG, CONNEC				
		<switch></switch>				CIVITO	1-304-307-11	1200, COMILEC	71 OK 41			
S1301 S1302		SWITCH, KEYB SWITCH, KEYB						<diode></diode>				
S1303 S1304	1-572-198-11	SWITCH, KEYB SWITCH, KEYB	OARD			D1431 D1432		DIODE RD39ES				
\$1305		SWITCH, KEYB				D1433		DIODE 1SS133T				
S1306 S1307		SWITCH, KEYB SWITCH, KEYB						<connector></connector>	•			
						DY1431	1-451-454-11	DEFLECTION Y				
*****	******	******	******	****	*******				1.0			
								<coil></coil>				
						L1431 L1432		INDUCTOR 47U INDUCTOR 47U				

The componants identified by shading and mark extstyle

Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMAR	K	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<transistor></transistor>	•					MISCELLANEOUS	*
O1431	8-720-017-06	TRANSISTOR 25	SC4703					***********	
O1432		TRANSISTOR 25					1-223-925-12	RESISTOR ASSY (HIGH-VOLT)	AGE
Q1433		TRANSISTOR 25					1-451-454-11	BEFLECTION YOKE (KITCH	200 × 3000 × 2000
Q1434		TRANSISTOR 25				4	1451455-21	DEFLECTION YOKE (B)	
Q1435	8-729-119-78	TRANSISTOR 25	SC2785-HFE				1-452-909-11	MAGNET ASSY, 4 POLE	
O1436	9.720.110.79	TRANSISTOR 25	SC2285_HEE				1-505-378-11	SPEAKER (10CM)	
Q1430	0-729-119-70	IKANDISTOR 2	3C2705-III L				1-556-945-21	CABLE, P-P	
							* 1-557-056-41	CABLE, P-P	
		<resistor></resistor>				Δ	L 1-769-837-11	CORD, POWER(WITH NOISE F	
R1431	1-249-414-11	CAPRON	560 59	% 1/4W			9 509 414 00	ANTENNA SWITCH AS-2F	(7,0A/125V)
R1431	1-249-414-11		560 59			250.00	0-390-414-00 11.280.088	BLOCK ASSY, HIGH-VOLTAGE	20000000000000000000000000000000000000
R1433	1-249-377-11		0.47 59				4.074707744788	MARCH PROGRESSION AND A COLUMN	#85,500 1890ma - 100 m
R1435		METAL OXIDE			F	1	NR-733-495-05	PICTURE TUBE 07MAC2(B) (L0	ONG NECK)
R1436		METAL OXIDE			F				(GA) (46C36)
D1407	1 040 414 11	CARRON	5.00	4 1/4557		4	S 8-733-496-05	PICTURE TUBE 07MAC2(R) (L0	
R1437 R1438	1-249-414-11 1-249-432-11		560 59 18K 59				K 8-733-407-05	PICTURE TUBE 07MAC3(B) (LI	(GA) (46C36) ONG NECK)
R1439	1-249-432-11		18K 59	% 1/4W				(GA)	(48535/53535)
R1440 R1441	1-249-414-11 1-249-417-11		560 59 1K 59		F	4	<u> 8-733-498-05</u>	PICTURE TUBE 07MAC3(R) (L)	ONG NECK) (48535/53S35)
K1441	1-249-417-11	CARBON	1K 3	0 1/4 W		1	N 8-733-507-05	PICTURE TUBE 07MAC4(B) (61	
R1442	1-247-815-91	CARBON	220 59	% 1/4W					
R1443	1-249-377-11		0.47 59		F	4	<u> </u>	PICTURE TUBE 07MAC4(R) (6)	S35)
R1445	1-249-403-11		68 59				L8-733-518-05	PICTURE TUBE 07MAC2(U)(G)	LENS)
R1448	1-249-416-11		820 59						
R1449	1-249-403-11	CARBON	68 59	% 1/4W		*******	******	*********	*****
R1450	1-249-417-11	CARBON	1K 59	% 1/4W					
R1451	1-249-411-11		330 59					ES AND PACKING MATERIALS	
R1452	1-249-417-11		1K 59				******	*********	*
R1453	1-249-401-11		47 59					14411141 11400011400144	
R1454	1-260-311-11	CARBON	39 59	% 1/2W				MANUAL, INSTRUCTION BAG, POLYETHYLENE	
R1455	1-249-384-11	CARRON	1.8 59	% 1/4W	F			MANUAL, INSTRUCTION (618)	35)
R1456			680 59		F			MANUAL, INSTRUCTION (46C	
R1457	1-249-417-11		1K 59					BOARD, TOP (48S35)	
R1458	1-249-384-11		1.8 59		F				
R1459	1-249-400-11	CARBON	39 59	% 1/4W	F		* 4-041-426-01	BAG, PROTECTION (except 61S	35)
								BAG, POLYETHYLENE (61S35)	
R1461	1-249-414-11		560 59					SHEET, PROTECTION	
R1462	1-249-414-11		560 59					PLATE, TOP (61S35)	
R1463	1-249-399-11		33 59 1K 59				+4-04/-//4-01	PLATE, TOP (46C36/53S35)	
R1464 R1465	1-249-417-11	METAL OXIDE			F		* 4.056.201.01	INDIVIDUAL CARTON (53S35)	
K1403	1-213-906-00	MIETAL OXIDE	33 37	w 3W	r			CUSHION (UPPER) (ASSY) (538	
R1466	1-216-475-11	METAL OXIDE	120 59	% 3W	F			CUSHION (LOWER) (ASSY) (53	
141400	1-210-4/5-11	METAL ONDE	120		•		* 4-056-298-01	PLATE, BOTTOM (53S35)	,555)
								TRAY (53S35)	
****	*****	******	*****	*****	***		+ 4 057 < 40 01	CHARLES CONTRACTOR (C)	305
								CUSHION (UPPER) (ASSY) (615	
								CUSHION (LOWER) (ASSY) (61 INDIVIDUAL CARTON (61S35)	
								TRAY (61S35)	
								BOARD, BOTTOM (61S35)	
									705)
								CUSHION (UPPER) (ASSY) (485	
								CUSHION (LOWER) (ASSY) (48	
								INDIVIDUAL CARTON (48S35) TRAY (48S35)	
								BOARD, BOTTOM (48S35)	
							7-037-035-01	DOIND, DOI 10M (40333)	

REMOTE COMMANDER

1-473-749-31 REMOTE COMMANDER (RM-Y136A) 4-978-977-01 POCKET, COVER (FOR RM-Y136A)